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SPONDEHOE

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Department of Energy
Richland Operations Office

P.O. Box 550
Richland, Washington 99352
JAN 2 4 1994

94-ERB-040

Mr. Dennis J. Cannon U.S. Army Corps of Engineers Hanford Program Office, MSIN A5-20 Richland, Washington 99352

Dear Mr. Cannon:

EXCAVATION PERMITS FOR U.S. ARMY CORPS OF ENGINEERS (USACE) WORK ON THE 1100 AREA, ARID LANDS ECOLOGY (ALE) FACILITY, AND NORTH SLOPE

Effective immediately, USACE is no longer required to obtain excavation permits from Westinghouse Hanford Company (WHC) for work on areas not managed by WHC. This includes the North Slope, the ALE, and the 1100-IU-1 Operable Unit located on the ALE. However, you are still required to obtain the necessary National Environmental Policy Act, cultural resource clearances, and ecological resource surveys follow the USACE "Safety and Health Requirements Manual" (EM 385-1-1) dated October 1, 1992, and interface with the cognizant facility manager which, in the case of the ALE, is Mr. Lee Rogers, Pacific Northwest Laboratory, on 376-8256.

Since work on the 1100-EM-1, EM-2, and EM-3 Operable Units will be performed in WHC-managed areas, you will still be required to obtain excavation permits in accordance with WHC's manual WHC-CM-8-7, Section 503.1, Revision 1, dated April 3, 1992. Some of the reasons for obtaining the excavation permits are to make sure that no underground utilities or adjacent facilities are affected by the construction work and that the appropriate WHC facility manager is informed about the nature of the work. Your various points of contact at WHC for obtaining 1100 Area excavation permits are defined in the WHC manual.

If you or your staff have any questions about this, please contact Mr. Walter D. Perro on 372-3704.

Sincerely,

Julie K. Erickson, Director

**Environmental Remediation Division** 

END: WDP

cc: R. Chong, USACE

J. A. Gardner-Clayson, USACE

W. L. Johnson, WHC

G. V. Last, PNL

L. E. Rogers, PNL

T. M. Wintczak, WHC

M. K. Wright, PNL



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15.	•	DATA 1	(F)	(G)	(H)	(1)		
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7	Well 699-13-64 GW mon	Pgs 1-4	N/A	EII 6.6 package for 699-13-64	3E	4		
8	Well 699-17-70 GW mon	Pgs 1-4	N/A	EII 6.6 package for 699-17-70	3E	4		
9	Well 699-19-88 GW mon	Pgs 1-4	N/A	EII 6.6 package for 699-19-88	3E	4		
10	Well 699-20-82 (Benson Ranch)	Pgs 1-4	N/A	EII 6.6 package for 699-20-82	3E	4		
11	Well 699-24-95 GW mon	Pgs. 1-4	N/A	EII 6.6 package for 699-24-95	3E .	4		
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13	Well 699-36-93 GW mon	Pgs 1-4	N/A	EII 6.6 package for 699-36-93	3E	4		
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17	Well 699-79-104 (PSN 82)	Pgs 1-4	N/A	EII 6.6 package for 699-79-104	3E	4		
18	Well 699-86-95 (PSN H83C)	Pgs 1-4	N/A	EII 6.6 package for 699-86-95	3E	4		
19	Well 699-92-14 (PSN 505)	Pgs 1-4	N/A	EII 6.6 package for 699-92-14	3E	4		
20	Well 699-93-93 (PSN H83L)	Pgs 1-4	N/A	EII 6.6 package for 699-93-93	3E	4		
21	Well 699-107-79 (PSN 410)	Pgs 1-3	N/A	EII 6.6 package for 699-107-79	3E	4	-	
22	Well 699-108-20 (PSN 500-1)	Pgs 1-4	N/A	EII 6.6 package for 699-108-20	3E	4		
23	Well 699-111-24 (Psn 500-1)	Pgs 1-4	N/A	EII 6.6 package for 699-111-24	3E	4		
24	Well 699-112-37 (PSN 535)	Pgs 1-4	N/A	EII 6.6 package for 699-112-37	3E	4		
25	Well 699-115-61 (PSN 420)	Pgs 1-4	N/A	EII 6.6 package for 699-115-61	3E	4		
26	Well 699-115-7 (DH-4 corehole)	Pgs 1-4	N/A	EII 6.6 package for 699-115-7	3E	4		

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## ENGINEERING DATA TRANSMITTAL FILE EDT 600202

### INTRODUCTION

This engineering data transmittal (EDT) file provides well construction and completion summary drawings and resource protection groundwater well structure fitness for use checklists for 26 gas field and groundwater wells located on the north slope and the Arid Land Ecology study area, Hanford Site.

This information is compiled as a part of the fitness for use evaluation process contained in environmental investigations instruction (EII) 6.6. A proposed diagrammatic well decommissioning plan is also included when decommissioning of a well is recommended.

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### REFERENCES

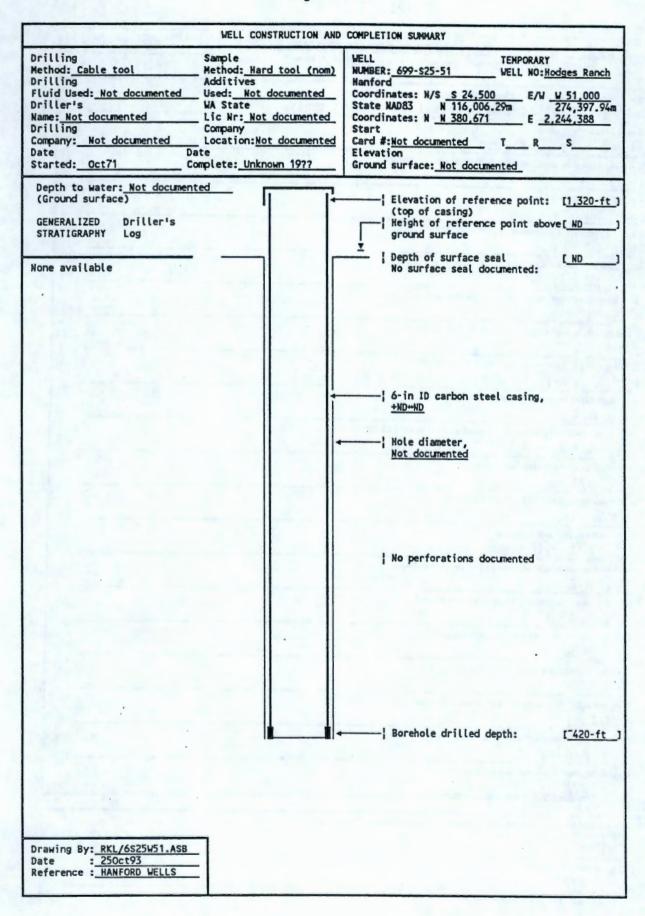
WHC-CM-7-7, Environmental Investigations and Site characterization Manual. EII 6.6, "Resource Protection Well Characterization and Evaluation."

PNL-6907, <u>HANFORD WELLS</u>, 1989, V. L. McGhan, Pacific Northwest Laboratory, Richland, Washington.

75/3322.17 HEDT 600202 Item 1 Page 3 of 3 D 200 WEST AREA Figure 1. Hanford Site Map Showing Well Locations 3

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	RESOURCE PROTECTION GROUNDWATER WELL	1. Well No. 699-S25-51
	STRUCTURE FITNESS FOR USE CHECKLIST	Page 1 of 2
2.	Has a need for use of the well been identified and documented?	
	Yes Rattlesnake Observatory water supply	
3.	Is well presently in use?	
	Yes Yes-has pump house	
4.	Is casing sealed in accordance with IAW WAC 173-160-075?	
	t ND 1	
	4a. Natural barriers preserved?	
	t_ND1	
	4b. Aquifer/strata pentrated permanently sealed?	a a a a a a a a a a a a a a a a a a a
	[ ND ] 4c. Annulus sealed against surface water?	
	[ ND ]  4d. Casing overlap more than 8 ft; packed and grouted?	
	( ND )	
5.	If not in use, is well capped IAW WAC 173-160-085?	
	( ND )	
6.	Is design and construction IAW WAC 173-160-500?	
	N/A   Well is not resource protection well	
	6a. Saturated formation/aquifers not connected?	
	(_N/A1	
	6b. Cuttings/development water handled IAW WAC 173-3037	11-
	6c. Well properly indentified?	
	( N/A )	
7	Is surface protection IAW WAC 173-160-510?	
	t N/A 1	
	7a. Well capped and protected?	
	[ N/A ] Has pump house	
	7b. Protective posts, surface pad or cover installed?	
	t_N/A_1	
	7c. Surface protection waived or variance obtained?	
	t_N/A_1	
	7d. Is existing surface protection damaged?	
	( N/A 1	
8.	Are casing materials IAW 173-160-520?	
	( N/A )	
9.	Was drill rig/drilling equipment cleaned IAW WAC 173-160-530?	
	9a. Drill rig/equipment casing/screen cleaned?	
	9b. Filter pack cleaned? Material compatible?	
	[ N/A ]	
BC	RA/CERCLA MONITORING WELL?	
	2. Does water sample from vertical screened interval represent horizontal	
	atratigraphy?	
	( N/A )	
	10a. Screened interval documented?	
	10b. Vertical lithology documented?	
	No No driller's log	
_		

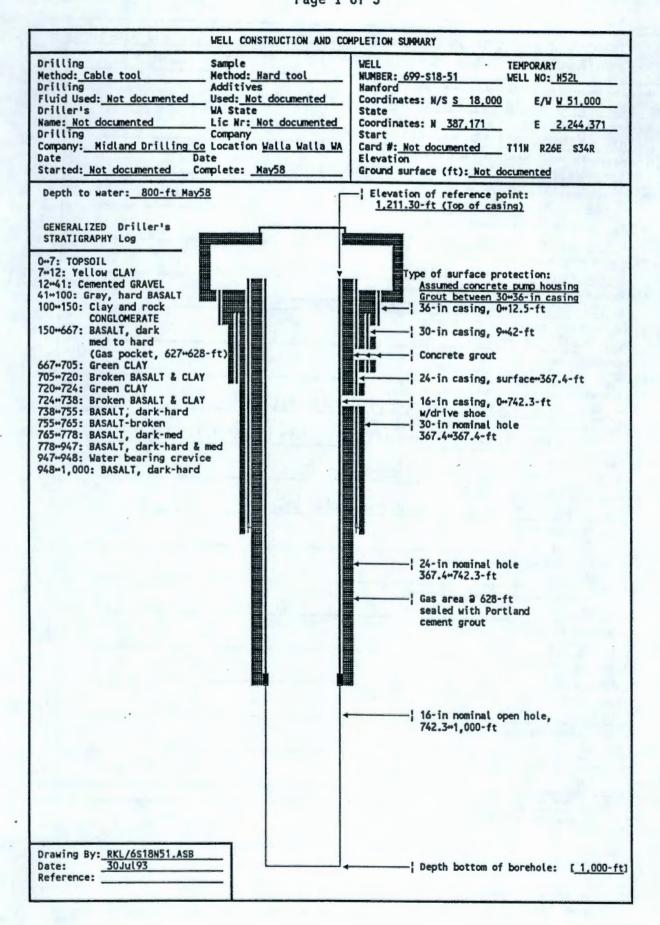
# 75/3322.1716 EDT 600202 Item 2 Page 3 of 3

STRUCTURE FITNESS FOR USE CHECKLIST	699-S25-51
	Page 2 of 2
design and construction IAW WAC 173-160-540?	
N/A 1	
1a. Screen commercially fabricated of material nonreactive to subsurface conditions?	
[ N/A ]	
1b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen.	
[ N/A ]	
1c. Well has been developed.	
[ N/A ]  1d. Annulus grouted with bentonite or bentonite/cement mixture.	
. N / Δ .	
[ N/A ]  Ones water sample meet established acceptance criteria?	
sample is less than 5 N IU and sand free.	
N/A 1 Data Sources Used:	
age!	Company
	Company:
	Company:
Geophysical: N/A Date:	
Television: N/A Date:	Company:
None	
Oatabases:	
N/A	111.14
Field Check: N/A Date:	Company:
Other:	
. Comments: Identify evaluation criteria addressed by number:	
Comments: Identify evaluation criteria addressed by number:	
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Comments: Identify evaluation criteria addressed by number: [15] Well is in beneficial use. No construction dat Should be accepted "as is" as constructed before WAC	a available. 173-160 effective
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Comments: Identify evaluation criteria addressed by number:  [15] Well is in beneficial use. No construction dat Should be accepted "as is" as constructed before WAC date. Shallow depth of 420-ft precludes aquifer inte	a available. 173-160 effective rconnection.
Comments: Identify evaluation criteria addressed by number:  [15] Well is in beneficial use. No construction dat Should be accepted "as is" as constructed before WAC date. Shallow depth of 420-ft precludes aquifer inte status  Well is acceptable for intended use  Well is acceptable for intended use if variance is granted [ N/A ]  Rehabilitation required to continue intended use [ No ] Accept as i	a available. 173-160 effective rconnection.
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Comments: Identify evaluation criteria addressed by number:  [15] Well is in beneficial use. No construction dat Should be accepted "as is" as constructed before WAC date. Shallow depth of 420-ft precludes aquifer inte  Status Well is acceptable for intended use Well is acceptable for intended use if variance is granted Well is acceptable for intended use if variance is granted [ N/A ]  Rehabilitation required to continue intended use  [ No	a available. 173-160 effective rconnection.  s s s

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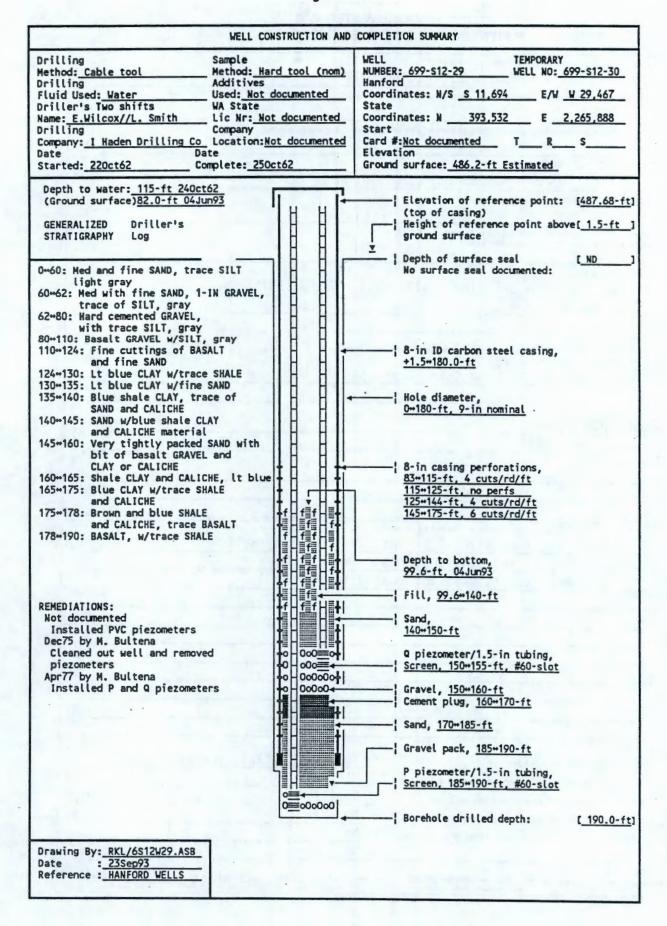
## RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST

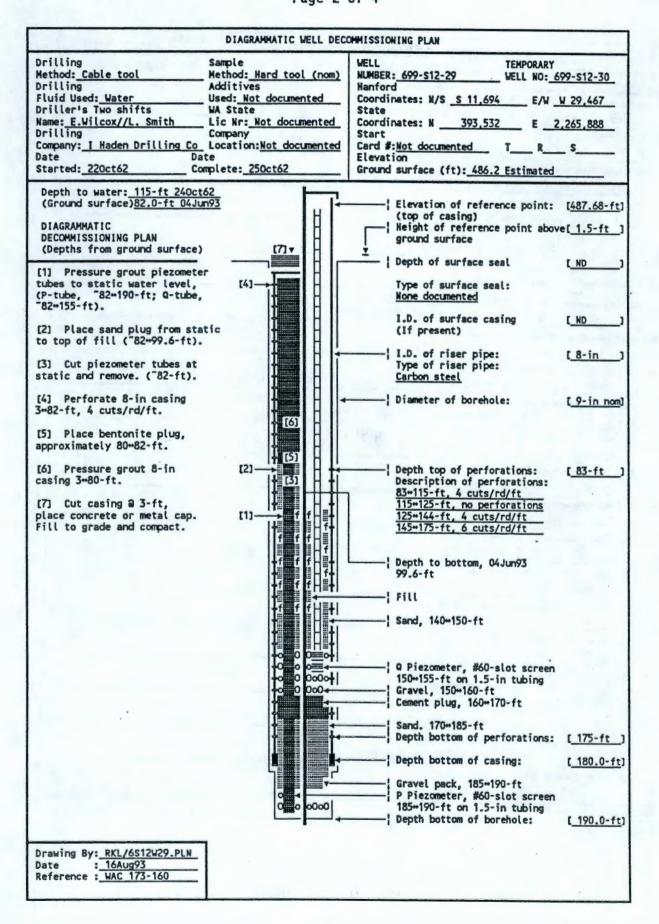
1. Well No. 699-S18-51

Page 1 of 2 2. Has a need for use of the well been identified and documented? Yes | Well is in beneficial use as a water supply well 3. Is well presently in use? Yes | Water supply to ALE headquarters 4. Is casing sealed in accordance with IAW WAC 173-160-075? Yes | Well has multiple cement grout casings 4a. Natural barriers preserved? Yes Interbeds and gas zone cased and sealed 4b. Aquifer/strata pentrated permanently sealed? Yes | All casings are cement grouted 4c. Annulus sealed against surface water? Yes Has surface casing and concrete pump housing 4d. Casing overlap more than 8 ft; packed and grouted? Yes | See attached construction drawing 5. If not in use, is well capped IAW WAC 173-160-085? NA Well is in use 6. Is design and construction IAW WAC 173-160-500? NA Well is in use 6a. Saturated formation/aquifers not connected? Yes | Connection prevented by grouted casings 6b. Cuttings/development water handled IAW WAC 173-303? NA | Well drilled before effective date of WAC 173-303 6c. Well properly indentified? No Well does not have permanent ID 7. Is surface protection IAW WAC 173-160-5107 NA Well is not a resource protection well 7a. Well capped and protected? I NA 1 7b. Protective posts, surface pad or cover installed? 7c. Surface protection waived or variance obtained? I NA I 7d. Is existing surface protection damaged? r NA \_\_1\_ 8. Are casing materials IAW 173-160-520? 9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? 9a. Drill rig/equipment casing/screen cleaned? 9b. Filter pack cleaned? Material compatible? I NA 1 RCRA/CERCLA MONITORING WELL? 10. Does water sample from vertical screened interval represent horizontal NA 1 10a. Screened interval documented? NA No screen 10b. Vertical lithology documented? Yes | Driller's log

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- A
174
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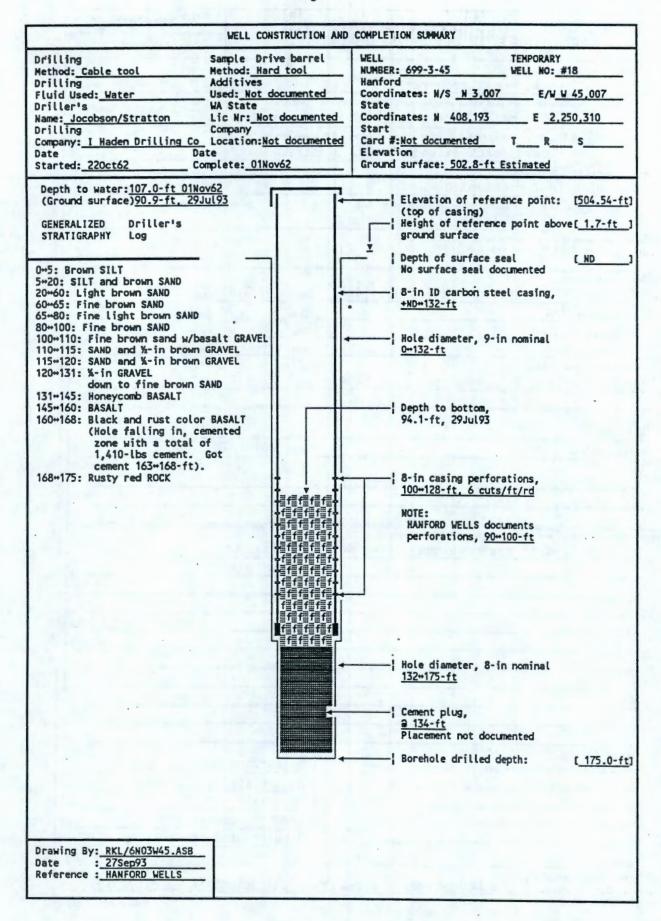


## EDT 600202 Item 4 Page 3 of 4

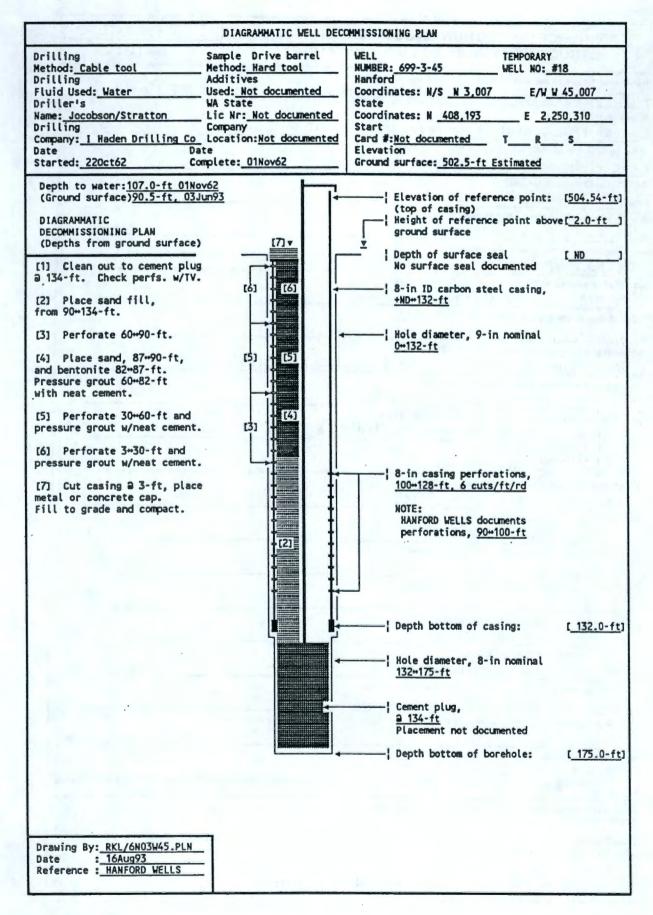
### 1. Well No. 699-S12-29 RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST Page 1 of 2 2. Has a need for use of the well been identified and documented? ND | Well identified for decommissioning as a part of ALE cleanup 3. Is well presently in use? Yes | WHC and PNL water levels, PNL sampling 4. Is casing sealed in accordance with IAW WAC 173-160-0757 No No surface or annular seal 4a. Natural barriers preserved? ND No seals or plugs 4b. Aquifer/strata pentrated permanently sealed? No 1 No annular seals 4c. Annulus sealed against surface water? No No surface seal 4d. Casing overlap more than 8 ft; packed and grouted? N/A Has two 1.5-in piezometers 5. If not in use, is well capped IAW WAC 173-160-085? [ N/A ] 6. Is design and construction IAW WAC 173-160-500? No Does not meet water well construction standards 6a. Saturated formation/aquifers not connected? ND May interconnect semiconfined aquifers 6b. Cuttings/development water handled IAW WAC 173-303? N/A Drilled before effective date of WAC 173-303 6c. Well properly indentified? [ ND ] Not documented 7. Is surface protection IAW WAC 173-160-510? No No surface protection 7a. Well capped and protected? ND Not documented, assumed capped and locked 7b. Protective posts, surface pad or cover installed? No 1 7c. Surface protection waived or variance obtained? [ N/A ] 7d. Is existing surface protection damaged? ( N/A ) 8. Are casing materials IAW 173-160-520? ND Casing is carbon steel 9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? ND Not documented, assumed not 9a. Drill rig/equipment casing/screen cleaned? [ ND ] Not documented. assumed not 9b. Filter pack cleaned? Material compatible? N/A No filter pack RCRA/CERCLA MONITORING WELL? 10. Does water sample from vertical screened interval represent horizontal I ND 1 Not documented 10a. Screened interval documented? Yes Piezometer screens documented 10b. Vertical lithology documented? Yes | Driller's log

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RESOURCE PROTECTION GROUNDWATER W STRUCTURE FITNESS FOR USE CHECKLIS	/ELL	Well No. 699-S12-29 Page 2 of 2
		1 890 2 01 2
11. Is design and construction IAW WAC 173-160-5407  [ No ] Does not meet requirements		44 16 1
11a. Screen commercially fabricated of material nonreactive to subsurface con		
ND Piezometer screen material not o		
11b. If filter pack installed, extends from bottom of screen to at least 3 ft about 1 No 1 Gravel pack extends to top of so		The state of the same
11c. Well has been developed.		
( ND ) Not documented		
11d. Annulus grouted with bentonite or bentonite/cement mixture.		
[ No ]No annular seal		
Does water sample meet established acceptance criteria?     Sample is less than 5 NTU and sand free.     [ ND ]		
13. Data Sources Used:		
Logs: Driller's: Wilcox/Smith, I Haden Drilling D	ate: 10/25/62	Company:
	ete:	Company:
Geophysical: N/A	ate:	Company:
AT / A	ate:	Company:
Publications: Title, Author, Date		A CONTRACTOR OF THE PARTY OF TH
HANFORD WELLS, V. L. McGhan, June 1989		
Databases: WHC GWWS		- 19tu / A
	06/04/02	_
	Date: 06/04/93	Company:
Other:		
14. Comments: Identify evaluation criteria addressed by number:		
[15] Well does not meet monitoring well cr	riteria.	
	٠	
15. Status	<del></del>	
	lo surface/an	nular seal
	lo surface/an	
Then in deceptable for internet and in the same in grant and in the same in th	las fill	
	Remove piezom	eters
	Required for	
		o ; outlup
Other I J 16. Status Recommendation		
Done By: Name: R. K. Ledgerwood Title: Princ	cipal Scienti	st Date: 10/29/93
		A-6000-4518 (06/93)



Item 5
Page 2 of 4



## 1. Well No. RESOURCE PROTECTION GROUNDWATER WELL 699-3-45 STRUCTURE FITNESS FOR USE CHECKLIST Page 1 of 2 2. Has a need for use of the well been identified and documented? [ ND ] Well identified for decommissioning as a part of ALE cleanup 3. Is well presently in use? Yes | PNL annual water level measurement 4. Is casing sealed in accordance with IAW WAC 173-160-075? No No surface or annular seal 4a. Natural barriers preserved? N/A Unconfined aquifer 4b. Aquifer/strata pentrated permanently sealed? No No annular seal 4c. Annulus sealed against surface water? No No surface seal or pad 4d. Casing overlap more than 8 ft; packed and grouted? N/A | Single casing 5. If not in use, is well capped IAW WAC 173-160-085? ( N/A ) 6. Is design and construction IAW WAC 173-160-500? [ No 1 Does not meet water well construction standards 6a. Saturated formation/aquifers not connected? N/A Unconfined aquifer only 6b. Cuttings/development water handled IAW WAC 173-303? N/A Drilled before effective date of WAC 173-303 6c. Well properly indentified? ND Not documented 7. Is surface protection IAW WAC 173-160-510? No No surface protection 7a. Well capped and protected? ND Not documented 7b. Protective posts, surface pad or cover installed? 7c. Surface protection waived or variance obtained? r No 1 7d. Is existing surface protection damaged? ND Not documented 8. Are casing materials IAW 173-160-520? No | Casing is carbon steel 9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? [ ND ] Not documented, assumed not 9a. Drill rig/equipment casing/screen cleaned? [ ND \_1\_ 9b. Filter pack cleaned? Material compatible? N/A No filter pack

10. Does water sample from vertical screened interval represent horizontal stratigraphy?

[ ND ] Not documented

10e. Screened interval documented?

[ N/A ] No screen

10b. Vertical lithology documented?

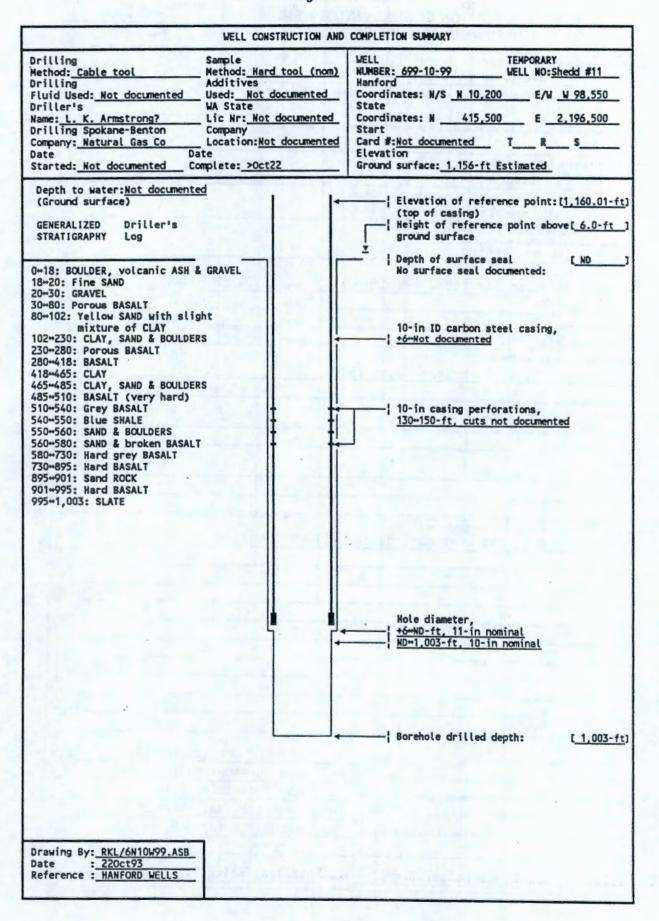
[ Yes ] Driller's log

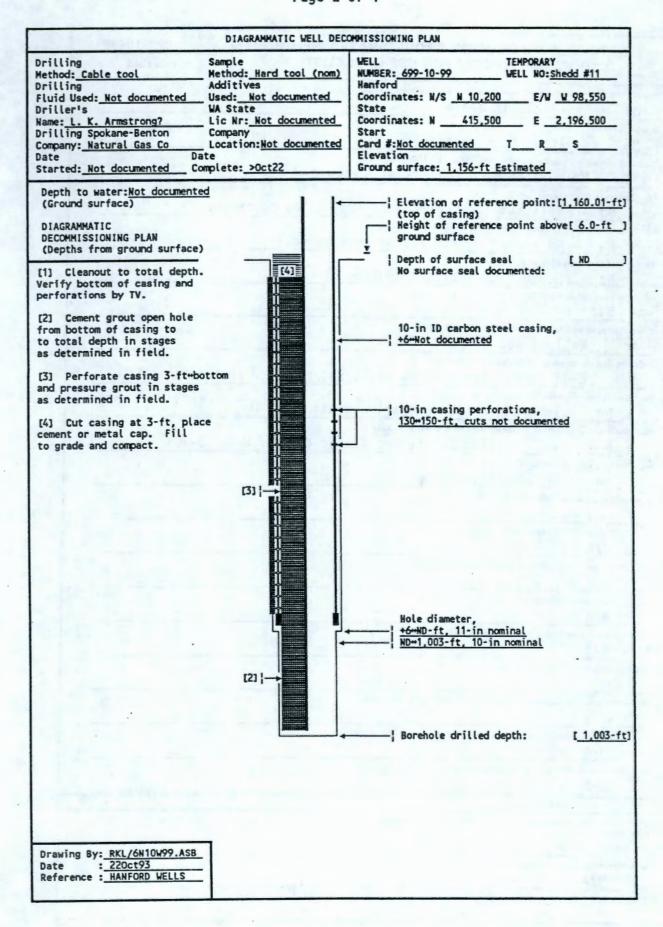
RCRA/CERCLA MONITORING WELL?

A-6000-451 (06/93)

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RESOURCE PROTECTION GROUNDWATER WELL	L 1. Well No. 699-3-45
STRUCTURE FITNESS FOR USE CHECKLIST	Page 2 of 2
11. Is design and construction IAW WAC 173-160-540?	
No No screen or filter pack	
11a. Screen commercially fabricated of material nonreactive to subsurface condition	ns?
11b. If filter pack installed, extends from bottom of screen to at least 3 ft above so	creen.
(_N/A_1	
11c. Well has been developed.	
[ ND ] Not documented	
11d. Annulus grouted with bentonite or bentonite/cement mixture.	
[ No ] No annular seal 2. Does water sample meet established acceptance criteria?	
Sample is less than 5 NTU and sand free.  [ ND ] Not documented	
3. Data Sources Used:	157.5 - 17.5 812.14
	11/01/62 Company:
	Company:
Geophysical: N/A Date:	Company:
Television: N/A Date:	Company:
Publications: Title, Author, Date	
HANFORD WELLS, V. L. McGhan, June 1989	
Other:	
4. Comments: Identify evaluation criteria addressed by number:  [15] Well does not meet monitoring well const	truction criteria.
	-
5. Status	cunface/annulas and
At a state of the	surface/annular seal
	surface/annular seal
	contains fill
	face seal, screen
Decommission, well is unneeded or cannot be remediated [ Yes ] Requ	uired for ALE cleanup
Other [ ]	
16. Status Recommendation Done By: Name: R. K. Ledgerwood Title: Princip	al Scientist Date: 10/29/93
Done By: Name: N. Ledger wood Title: FT HICTP	A-6000-451R (06

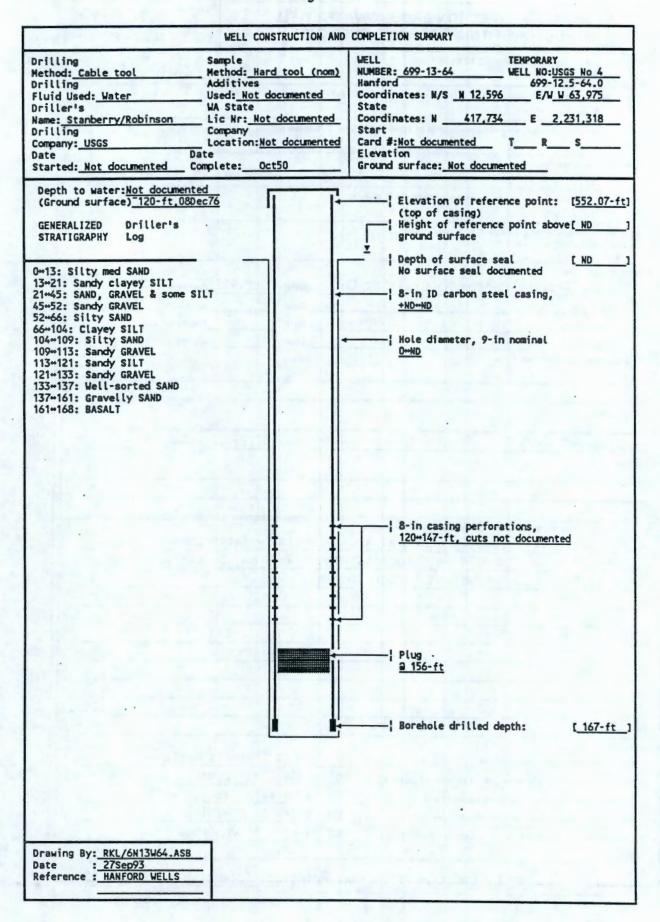




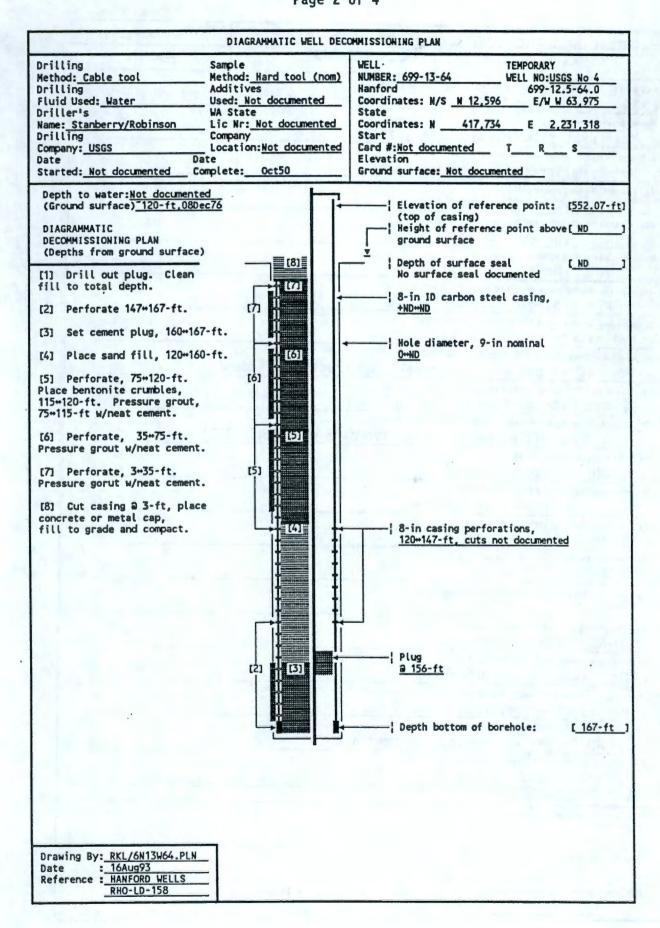
	RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. 699-10-99 Page 1 of 2
2.	Has a need for use of the well been identified and documented?	
	[ No ] Gas field is depleted	
3.	is well presently in use?	
	No Well has been abandoned	
4.	Is casing sealed in accordance with IAW WAC 173-160-075?	
	ND No surface or annular seal documented	
	4a. Natural barriers preserved?	The state of the s
	No 1 Well has been perforated, may allow cascad	ing
	4b. Aquifer/strata pentrated permanently sealed?	
	No 1 No record of surface or annular seal	
	4c. Annulus sealed against surface water?	
	No 1 No surface seal documented	
	4d. Casing overlap more than 8 ft; packed and grouted?	
_	[ N/A ] If not in use, is well capped IAW WAC 173-160-0857	
9.	[ No ] Well is not capped	
6	Is design and construction IAW WAC 173-160-5007	
٠.	N/A Well is gas exploration well, not resource pr	otection well
	6a. Saturated formation/aquifers not connected?	100
	No 1 Interconnection probably exists	
	6b. Cuttings/development water handled IAW WAC 173-303?	
	N/A Well drilled befroe applicable date of WAC	173-303
	6c. Well properly indentified?	
	[ No ] No identification	•
7.	Is surface protection IAW WAC 173-160-510?	
	(_N/A_1	
	7a. Well capped and protected?	
	[ N/A ]  7b. Protective posts, surface pad or cover installed?	
	(_N/A1	
	7c. Surface protection waived or variance obtained?	
	[ N/A ]  7d. Is existing surface protection damaged?	
	[ N/A ]	
8	Are casing materials IAW 173-160-520?	
0.	[ N/A ]	
9.	Was drill rig/drilling equipment cleaned IAW WAC 173-160-5307	
	[ N/A ]	
	9a. Drill rig/equipment casing/screen cleaned?	
	t N/A 1	
	9b. Filter pack cleaned? Material compatible?	
	( N/A 1	
RCI	RA/CERCLA MONITORING WELL?	
10	Does water sample from vertical screened interval represent horizontal stratigraphy?  N / A	
	[ N/A ]  10a. Screened interval documented?	
	[ N/A ]	
	10b. Vertical lithology documented?	
14	( Yes ) Driller's log	
_	1,000,000,000	A COOR 454 (COOR)

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STRUCTURE FITNESS FOR USE CHECKLIST	699-10-99
	Page 2 of 2
1. Is design and construction IAW WAC 173-160-540?	
r_ N/A1	
11a. Screen commercially fabricated of material nonreactive to subsurface conditions?	
(_N/A_1	
11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen.	
( N/A 1	
11c. Well has been developed.	
[ N/A ]  11d. Annulus grouted with bentonite or bentonite/cement mixture.	
[ N/A ]  2. Does water sample meet established acceptance criteria?	
Sample is less than 5 NTU and sand free.  [ N/A ]	
3. Data Sources Used:	3
Logs: Driller's: Spokane-Benton Natural Gas Co Date: Oct19	22 Company:
Geologist: N/A Date:	Company:
Geophysical: N/A Date:	Company:
Television: N/A Date:	
Publications: Title, Author, Date	The state of the s
N/A	
Databases: N/A	
Field Check: WHC GWWS Date: 07/29	/93 Company:
Other:	
4. Comments: Identify evaluation criteria addressed by number:	
[15] Well is presently unneeded and potentially int	
[15] Well is presently unneeded and potentially intaquifers. Well should be decommissioned. Well may	
[15] Well is presently unneeded and potentially int	
[15] Well is presently unneeded and potentially intaquifers. Well should be decommissioned. Well may	
[15] Well is presently unneeded and potentially intaquifers. Well should be decommissioned. Well may	
[15] Well is presently unneeded and potentially intaquifers. Well should be decommissioned. Well may	
[15] Well is presently unneeded and potentially intaquifers. Well should be decommissioned. Well may	
[15] Well is presently unneeded and potentially intaquifers. Well should be decommissioned. Well may	
[15] Well is presently unneeded and potentially intaquifers. Well should be decommissioned. Well may	
[15] Well is presently unneeded and potentially intaquifers. Well should be decommissioned. Well may	
[15] Well is presently unneeded and potentially intaquifers. Well should be decommissioned. Well may	
[15] Well is presently unneeded and potentially intaquifers. Well should be decommissioned. Well may remediation as up-gradient background well.	be candidate for
[15] Well is presently unneeded and potentially intaquifers. Well should be decommissioned. Well may remediation as up-gradient background well.  15. Status  Well is acceptable for intended use  [No] Gas field	is depleted
[15] Well is presently unneeded and potentially intaquifers. Well should be decommissioned. Well may remediation as up-gradient background well.  15. Status  Well is acceptable for intended use  [No] Gas field	be candidate for
[15] Well is presently unneeded and potentially intaquifers. Well should be decommissioned. Well may remediation as up-gradient background well.  15. Status  Well is acceptable for intended use  [No ] Gas field	is depleted
[15] Well is presently unneeded and potentially intaquifers. Well should be decommissioned. Well may remediation as up-gradient background well.  15. Status  Well is acceptable for intended use  Well is acceptable for intended use if variance is granted  Rehabilitation required to continue intended use  TRO  No 1 No value and 1 No 2 No	is depleted
[15] Well is presently unneeded and potentially intaquifers. Well should be decommissioned. Well may remediation as up-gradient background well.  15. Status  Well is acceptable for intended use  Well is acceptable for intended use if variance is granted  Rehabilitation required to continue intended use  [No] No value a	is depleted connect aquifers as gas well eful as background
[15] Well is presently unneeded and potentially intaquifers. Well should be decommissioned. Well may remediation as up-gradient background well.  15. Status  Well is acceptable for intended use  Well is acceptable for intended use if variance is granted  Rehabilitation required to continue intended use  Remediation required to achieve intended use  [No] May be use	is depleted connect aquifers as gas well eful as background
[15] Well is presently unneeded and potentially intaquifers. Well should be decommissioned. Well may remediation as up-gradient background well.  15. Status  Well is acceptable for intended use  Well is acceptable for intended use if variance is granted [ No ] Well may of the provided intended use [ No ] No value at the provided intended use [ No ] May be use [ No ] May	is depleted connect aquifers as gas well eful as background



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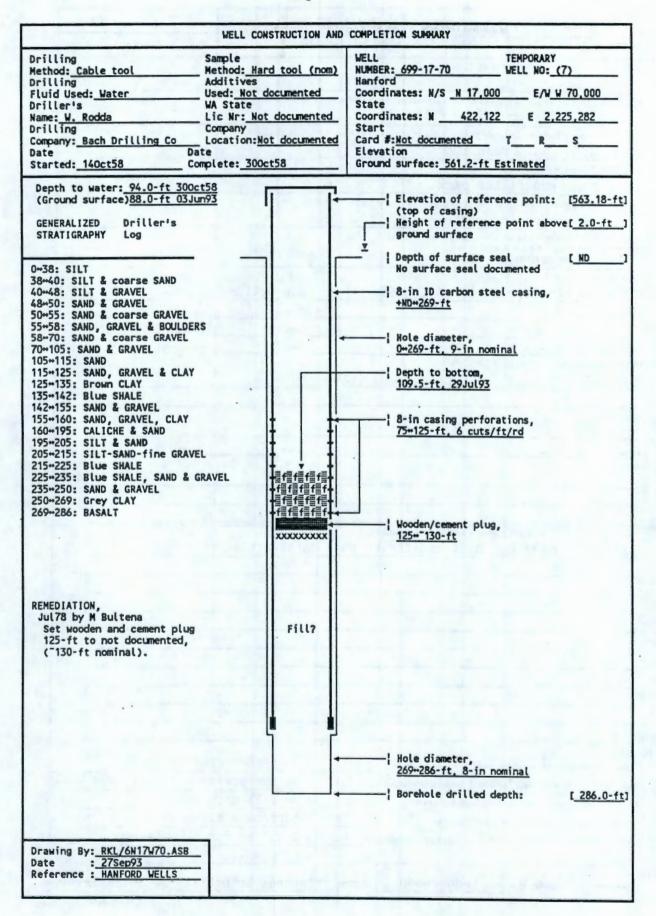
### 1. Well No. RESOURCE PROTECTION GROUNDWATER WELL 699-13-64 STRUCTURE FITNESS FOR USE CHECKLIST Page 1 of 2 2. Has a need for use of the well been identified and documented? ND | Well identified for decommissioning as a part of ALE cleanup 3. Is well presently in use? Yes PNL sitewide characterization 4. Is casing sealed in accordance with IAW WAC 173-160-075? No No surface or annular seal 4a. Natural barriers preserved? N/A Unconfined aquifer 4b. Aquifer/strata pentrated permanently sealed? No No annular seal 4c. Annulus sealed against surface water? No No surface seal or pad 4d. Casing overlap more than 8 ft; packed and grouted? I N/A | Single casing 5. If not in use, is well capped IAW WAC 173-160-085? N/A 1 6. Is design and construction IAW WAC 173-160-500? No Does not meet water well construction standards 6a. Saturated formation/aquifers not connected? N/A Unconfined aquifer only 6b. Cuttings/development water handled IAW WAC 173-303? N/A Drilled before effective date of WAC 173-303 6c. Well properly indentified? ND Not documented 7. Is surface protection IAW WAC 173-160-510? No No surface protection 7a. Well capped and protected? ND Not documented 7b. Protective posts, surface pad or cover installed? t No 1 7c. Surface protection waived or variance obtained? I No 1 7d. Is existing surface protection damaged? I ND I Not documented 8. Are casing materials IAW 173-160-520? No Casing is carbon steel 9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-5307 ND Not documented, assumed not 9a. Drill rig/equipment casing/screen cleaned? [ ND ] Not documented, assumed not 9b. Filter pack cleaned? Material compatible? 1 N/A 1 No filter pack RCRA/CERCLA MONITORING WELL? 10. Does water sample from vertical screened interval represent horizontal stratigraphy? I ND 1 10a. Screened interval documented? [ N/A ] No screen 10b. Vertical lithology documented? Yes | Driller's log

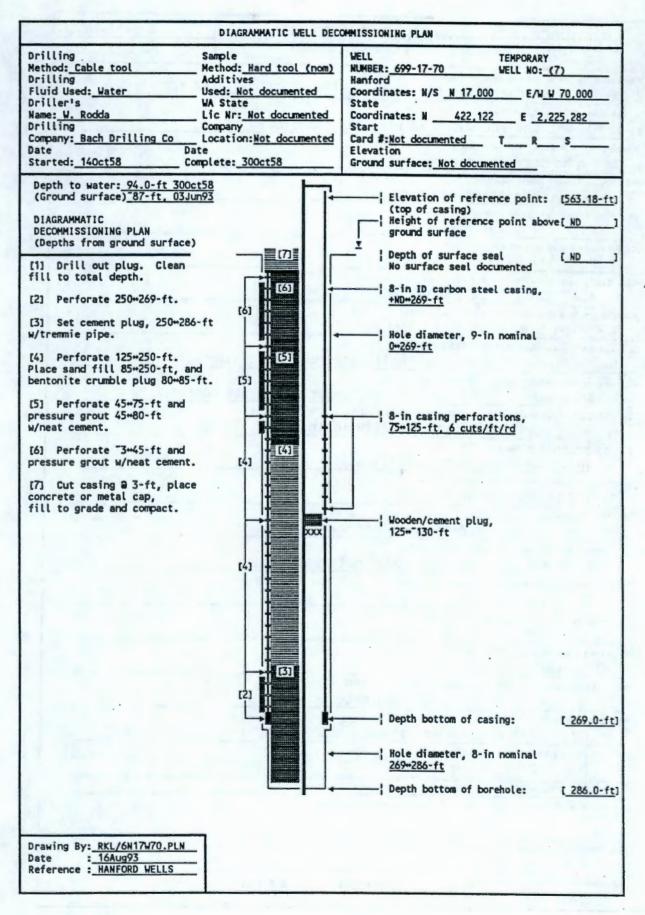
A-6000-451 (06/93)

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RESOURCE PROTECTION GROUNDW		1. Well No. 699-13-64
STRUCTURE FITNESS FOR USE C	Page 2 of 2	
Is design and construction IAW WAC 173-160-540?		
110		
11a. Screen commercially fabricated of material nonreactive to a No screen or filter pack	ubsurface conditions?	
11b. If filter pack installed, extends from bottom of screen to at	least 3 ft about somen	
( N/A ) No screen	Neet o It above screen.	
11c. Well has been developed.		
[ N/A ] No filter pack		
11d. Annulus grouted with bentonite or bentonite/cement mixture	78.	
( ND ) Not documented		
Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. NO 1 NO annular seal		
Data Sources Used:	•	
Logs: Driller's: Stanberry/Robinson, USGS	Date: Oct195	O Company:
N/A	D.4.	
Geophysical: N/A	Date:	
Television: N/A	Date:	Company:
Publications: Title, Author, Date HANFORD WELLS, V. L. McGhan, June 19	000	
HANFORD WELLS, V. L. McGhan, June 19	303	
Other:		
. Comments: Identify evaluation criteria addressed by number: [15] Well does not meet monitoring to	well construction	criteria.
		* ***
·		
Status	NB 1 Notsdocume	Mandular seal
The state of the s		/annular seal
Tionabilitation in quine to obtain a minimum in a minimum	No 1 No fill do	
		al/perforate
Decommission, well is unneeded or cannot be remediated [	Yes 1 Required f	or ALE cleanup
Other [	1	
A Charles Decomposed then	Dut - 1 - 1 0 1	-14-4 30 100 100
Done By: Name: R. K. Ledgerwood T	ide: Principal Scie	entist Date: 10/29/93

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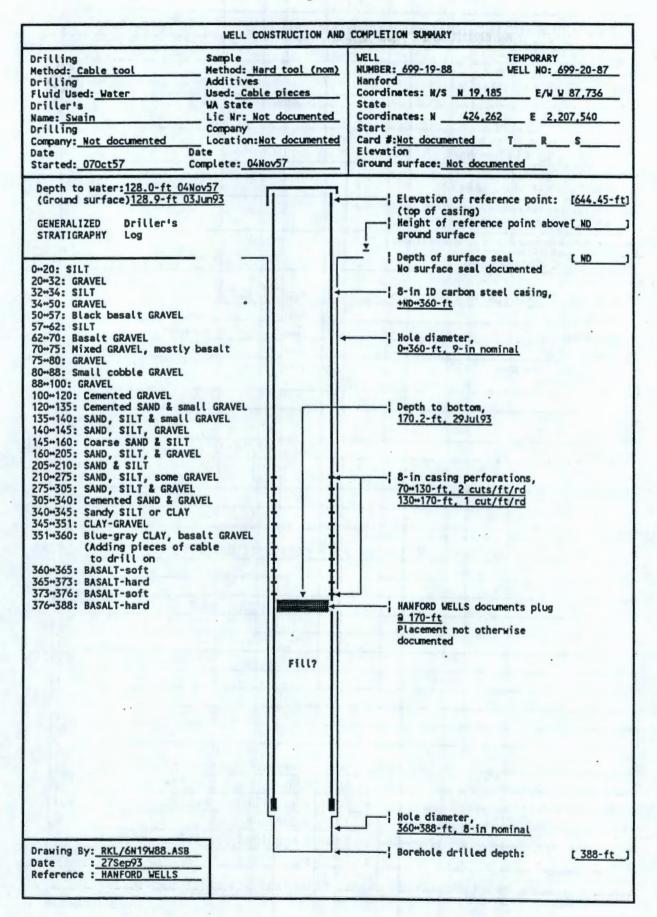




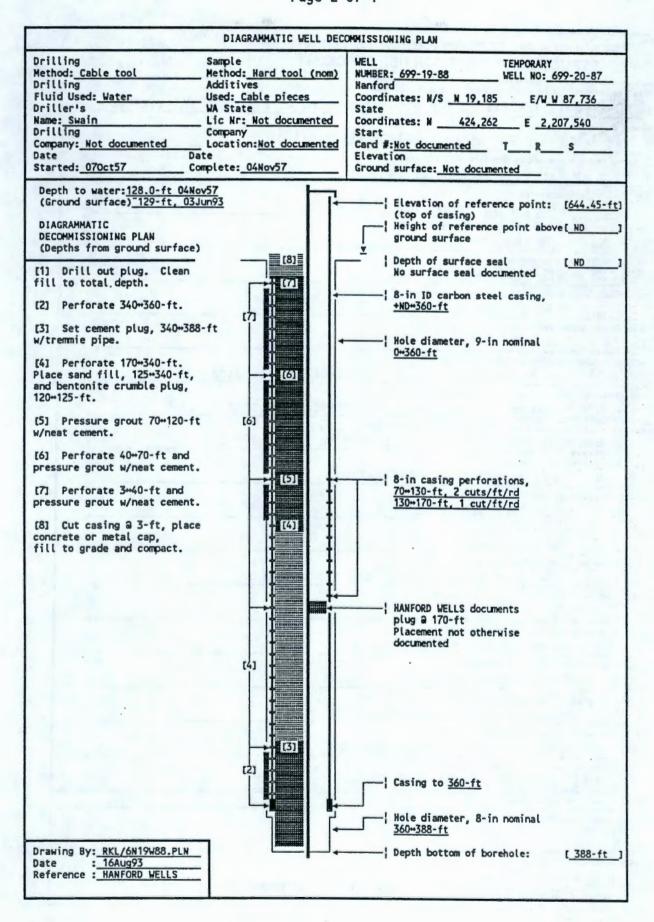
## RESOURCE PROTECTION GROUNDWATER WELL 699-17-70 STRUCTURE FITNESS FOR USE CHECKLIST Page 1 of 2 2. Has a need for use of the well been identified and documented? ND | Well identified for decommissioning as a part of ALE cleanup 3. Is well presently in use? Yes | WHC and PNL water levels, PNL sampling 4. Is casing sealed in accordance with IAW WAC 173-160-075? No No surface or annular seal 4a. Natural barriers preserved? N/A Unconfined aquifer 4b. Aquifer/strata pentrated permanently sealed? No No annular seals 4c. Annulus sealed against surface water? No No surface seal or pad 4d. Casing overlap more than 8 ft; packed and grouted? N/A | Single casing string 5. If not in use, is well capped IAW WAC 173-160-085? N/A In use, capped and locked 6. Is design and construction IAW WAC 173-160-500? No Does not meet water well construction standards 6a. Saturated formation/aquifers not connected? N/A Unconfined aquifer, may interconnect semiconfined 6b. Cuttings/development water handled IAW WAC 173-303? N/A | Drilled before effective date of WAC 173-303 6c. Well properly indentified? No No permanent identification 7. Is surface protection IAW WAC 173-160-510? No No surface protection 7a. Well capped and protected? Yes | Capped and locked 7b. Protective posts, surface pad or cover installed? [ No ] No post or pad, cover not applicable 7c. Surface protection waived or variance obtained? ( N/A ) 7d. Is existing surface protection damaged? N/A No surface protection 8. Are casing materials IAW 173-160-5207 ND | Carbon steel casing 9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? ND Not documented, assumed not 9a. Drill rig/equipment casing/screen cleaned? ND Not documented, assumed not 9b. Filter pack cleaned? Material compatible? N/A No filter pack RCRA/CERCLA MONITORING WELL? 10. Does water sample from vertical screened interval represent horizontal stratigraphy? 1 ND 1 10a. Screened interval documented? I N/A | No screen 10b. Vertical lithology documented? Yes | Driller's log

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	RESOURCE PROTECTION GROUNDWATER WELL			. Well No. 699-17-70	
STRUCTURE FITNESS FOR USE CHECKLIST			09.000	Page 2 of 2	
	s design and construction IAW WAC 173-160-5407				
No Does not meet requirements					
	11a. Screen commercially fabricated of material nonreactive to subsurface conditions?  [ N/A ] NO SCREEN				
	11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen.  [ N/A ] NO filter pack				
,	11c. Well has been developed.				
	[ ND ] Not documented				
	11d. Annulus grouted with bentonite or bentonite/cement mixture.  [ No ] No annular seal				
12.	Opes water sample meet established acceptance criteria?  Sample is less than 5 NTU and sand free.  ND 1 Not documented				
13.	Data Sources Used:				
	Driller's: Rodda/ Bach Drilling Co	Date: 10	/30/58	Company:	
	Geologist: N/A	Date:		Company:	
	Geophysical: N/A	Date:			
	Television: N/A	Date:			
	Publications: Title, Author, Date				
	HANFORD WELLS, V. L. McGhan, June 1989		-		
	Databases:	1			
	WHC GWWS				
	Field Check: WHC GWWS	Date: 07	/29/93	Company:	
	Other:				
	N/A				
14	Comments: Identify evaluation criteria addressed by number:				
14.	[15] Well does not meet monitoring well	constru	ction o	criteria.	
				100	
		**-			
	•				
15	Status				
15.	Well is acceptable for intended use [ NO	1 No sur	face/ar	nnular seal	
	Well is acceptable for intended use if variance is granted [ No	-		nnular/seal	
	Rehabilitation required to continue intended use [ No	No fil			
	Remediation required to achieve intended use [ Yes	Surfac			
	Trained and to deliver to the second of the			ALE cleanup	
	Other	1			
16.	Chatus Decommendation		C	1-1 10/00/00	
	Done By: Name: R. K. Ledgerwood Title: Pr	incipal	Scient	ist Data: 10/29/93	
_				A-6000-451R (06/	



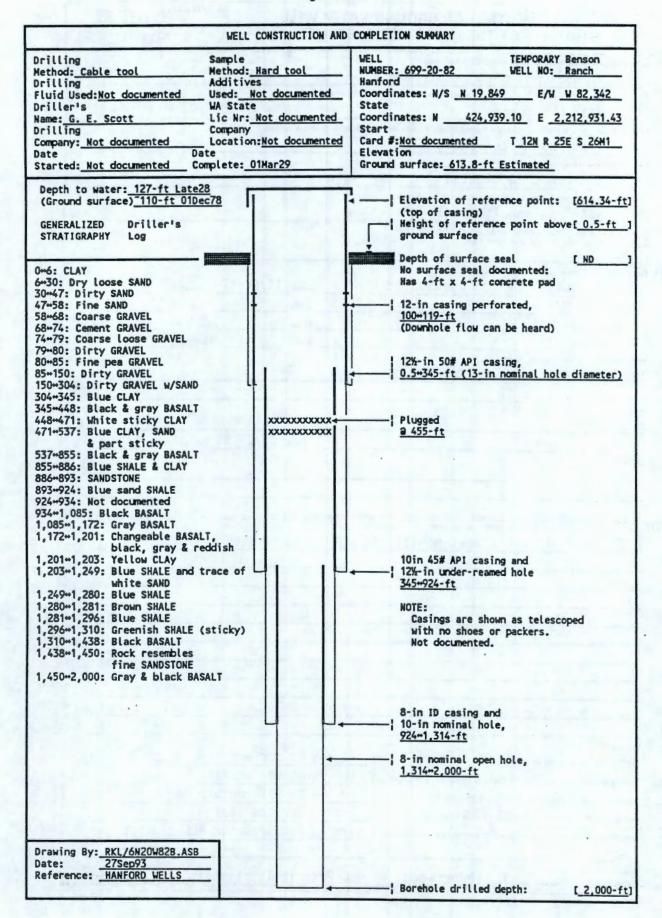
7513322.1729 EDT 600202 Item 9 Page 2 of 4

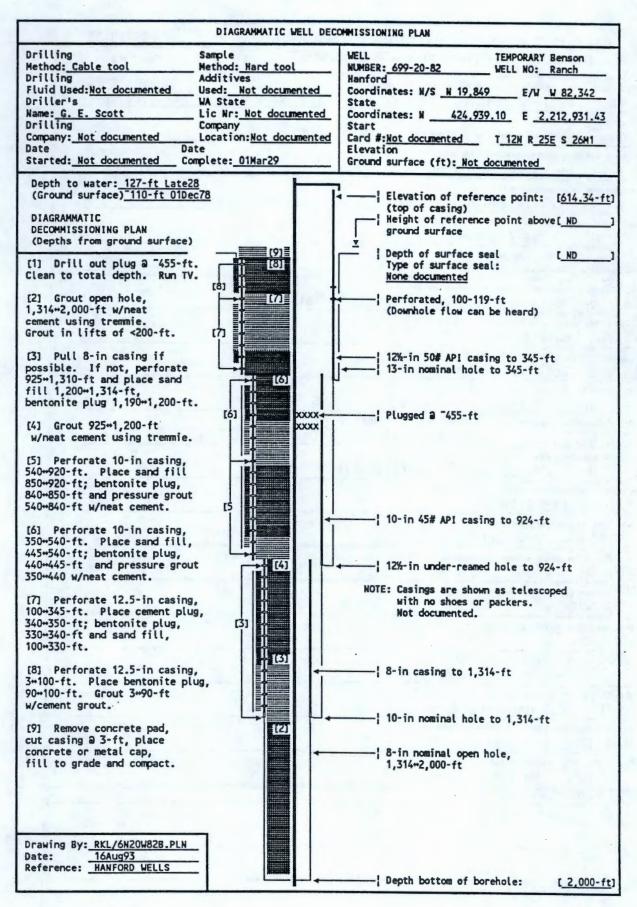


#### 699-19-88 RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST Page 1 of 2 2. Has a need for use of the well been identified and documented? ND | Well identified for decommissioning as a part of ALE cleanup 3. Is well presently in use? Yes WHC and PNL water levels, PNL sampling 4. Is casing sealed in accordance with IAW WAC 173-160-075? No 1 No surface or annular seal 4a. Natural barriers preserved? [ No ] No annular seal, has plug @ 170-ft 4b. Aquifer/strata pentrated permanently sealed? No 1 No annualr seal 4c. Annulus sealed against surface water? No No surface seal 4d. Casing overlap more than 8 ft; packed and grouted? N/A | Single casing string 5. If not in use, is well capped IAW WAC 173-160-085? ( N/A ) 6. Is design and construction IAW WAC 173-160-500? No Does not meet water well construction standards 6a. Saturated formation/aquifers not connected? N/A Unconfined aquifer, may interconnect semiconfined 6b. Cuttings/development water handled IAW WAC 173-303? N/A Drilled before effective date of WAC 173-303 6c. Well properly indentified? No No permanent identification 7. Is surface protection IAW WAC 173-160-5107 No No surface protection 7a. Well capped and protected? Yes 1 Capped and locked 7b. Protective posts, surface pad or cover installed? [ No ] No post or pad, cover not applicable 7c. Surface protection waived or variance obtained? No 1 7d. Is existing surface protection damaged? N/a No surface protection 8. Are casing materials IAW 173-160-520? [ ND ] Carbon steel casing 9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? ND Not documented, assumed not 9a. Drill rig/equipment casing/screen cleaned? ND Not documented, assumed not 9b. Filter pack cleaned? Material compatible? N/A No filter pack RCRA/CERCLA MONITORING WELL? 10. Does water sample from vertical screened interval represent horizontal ND 1 10s. Screened interval documented? N/A No screen 10b. Vertical lithology documented? Yes Driller's log

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RESOURCE PROTECTION GROUNDWATER WELL	699-19-88			
STRUCTURE FITNESS FOR USE CHECKLIST	Page 2 of 2			
. Is design and construction IAW WAC 173-160-540?				
No Does not meet requirements				
11a. Screen commercially fabricated of material nonreactive to subsurface conditions?				
I_N/A_I No screen				
11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen.				
N/a No filter pack				
ND Not documented				
11d. Annulus grouted with bentonite or bentonite/cement mixture.				
N/A No annular seal				
2. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free.  ( ND ]				
Data Sources Used:				
Logs: Driller's: Swain/ Co not documented Date: 11/04/5	Company:			
Geologist: N/A Date:	Company:			
Geophysical: N/A Date:	Company:			
Television: N/A Date:	Company:			
Publications: Title, Author, Date	11712			
HANFORD WELLS, V. L. McGhan, June 1989	3/10-16			
Field Check: WHC GWWS Date: 07/29/	93 Company:			
Other:				
Other:  Comments: Identify evaluation criteria addressed by number:				
Other: Comments: Identify evaluation criteria addressed by number:				
Other: Comments: Identify evaluation criteria addressed by number:				
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Other:  Comments: Identify evaluation criteria addressed by number:				
Comments: Identify evaluation criteria addressed by number:  [15] Well does not meet monitoring Well construction  Status	n criteria.			
Comments: Identify evaluation criteria addressed by number:  [15] Well does not meet monitoring well construction  Status  Well is acceptable for intended use	n criteria.			
Comments: Identify evaluation criteria addressed by number:  [15] Well does not meet monitoring well construction  5. Status  Well is acceptable for intended use  Well is acceptable for intended use if variance is granted [ No 1 No surface	/annular seal			
Comments: Identify evaluation criteria addressed by number:  [15] Well does not meet monitoring well construction  5. Status  Well is acceptable for intended use  Well is acceptable for intended use if variance is granted  Rehabilitation required to continue intended use  [ No ] No surface	/annular seal /annular seal cumented			
Comments: Identify evaluation criteria addressed by number:  [15] Well does not meet monitoring well construction  5. Status  Well is acceptable for intended use  Well is acceptable for intended use if variance is granted to achieve intended use  Remediation required to achieve intended use  [ No ] No surface  No ] No fill do  Remediation required to achieve intended use  [ Yes ] Surface se	/annular seal /annular seal cumented			
5. Status Well is acceptable for intended use   No   No surface Well is acceptable for intended use if variance is granted   No   No fill do Remediation required to achieve intended use   Yes   Surface se	/annular seal /annular seal cumented			





## RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST

1. Well No. 699-20-82

	STRUCTURE FITNESS FOR USE CITEOREIGT	Page 1 of 2
2.	Has a need for use of the well been identified and documented?	
_	ND   Well identified for decommissioning as a part of	of ALE cleanup
3.	Is well presently in use?	
	Yes PNL sitewide water level monitoring	
4.	Is casing sealed in accordance with IAW WAC 173-160-075?	
	No No surface or annular seal	
	4a. Natural barriers preserved?	BOOK STATE
	No 1 Telescoping unsealed casing conects aquifers	
	4b. Aquifer/strata pentrated permanently sealed?	
	No See 4 above	
	4c. Annulus sealed against surface water?	
	No Has pad, no surface seal	The second second
	4d. Casing overlap more than 8 ft; packed and grouted?	
	No Casing does not overlap, is not grouted	
5.	If not in use, is well capped IAW WAC 173-160-085?	
	r_N/A_rWell is capped	
6.	Is design and construction IAW WAC 173-160-500?	
	No Well has downhole flow	1/47/- (1-1)
	6a. Saturated formation/aquifers not connected?	
	No Aquifers are connected, see 6. above	
	6b. Cuttings/development water handled IAW WAC 173-303?	
	ND Drilled before applicable date of WAC 173-30	03
	6c. Well properly indentified?	
	No No permanent identification	
7.	Is surface protection IAW WAC 173-160-510?	
	( No ) Pad only	
	7a. Well capped and protected?	the sale of the sa
	Yes Has locked cap and pad	
	7b. Protective posts, surface pad or cover installed?	
	No See 7a. above, no posts	
	7c. Surface protection waived or variance obtained?	
	1 N/A 1	
	7d. Is existing surface protection damaged?	
	[ No ]	
8.	Are casing materials IAW 173-160-5207  [ ND ] Casing is carbon steel	
9.	Wes drill rig/drilling equipment cleaned IAW WAC 173-160-530?  [ ND ] Not documented, assumed not	
	9a. Drill rig/equipment casing/screen cleaned?	
	[ N/A ] No screen  9b. Filter peck cleaned? Material compatible?	
	N/A No filter pack	
-	RA/CERCLA MONITORING WELL?	
-	). Does water sample from vertical screened interval represent horizontal	
10	stratigraphy?	
	t_ND_1	
	10a. Screened interval documented?	
	I N/A 1 No screen	
	10b. Vertical lithology documented?	
	( Yes   Driller's log	

A-6000-451 (06/93)

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RESOURCE PROTECTION GROUNDWATER WELL	1. Well No. 699-20-82			
STRUCTURE FITNESS FOR USE CHECKLIST	Page 2 of 2			
1. Is design and construction IAW WAC 173-160-540?				
N/A Does not meet requirements				
11a. Screen commercially fabricated of material nonreactive to subsurface conditions?				
[ N/A ] No screen				
11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen.				
N/A No filter pack				
11c. Well has been developed.				
[ ND ] Not documented  11d. Annulus grouted with bentonite or bentonite/cement mixture.				
				( No ) No annular seal
Does water sample meet established acceptance criteria?     Sample is less than 5 NTU and sand free.     N/A 1				
3. Data Sources Used:				
Logs: Driller's: G. E. Scott/Co not documented Date: 03/01/3	29 Company:			
	Company:			
51.44				
Geophysical: N/A Date:				
Publications: Title, Author, Date	Company:			
HANFORD WELLS, V. L. McGhan, June 1989				
MANFORD WELLS, V. L. McGhail, Odne 1909				
Databases: WHC GWWS Well Database				
	/02			
	33 Company:			
Other:				
4. Comments: Identify evaluation criteria addressed by number:	Pomodiation			
[15] Well connects aquifers and has downhole flow.	11 decemping			
and/or decommissioning is required. See attached we	il decommissioning			
plan unless user requires remediation.				
	-			
15. Status				
Well is acceptable for intended use [ No ] Connects a	<del></del>			
Well is acceptable for intended use if variance is granted [ No ] Remediate/	decommission			
	decommission			
Remediation required to achieve intended use [ Yes ] See commen				
Vac Daning 4	for ALE cleanup			
Decommission, well is unneeded or cannot be remediated [ 188 ] Kequired 1	or ALL Creatiup			
Other [ ]				
16. Status Recommendation				
Done By: Name: R. K. Ledgerwood Title: Principal Scie	entist Date: 10/29/93			

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No construction data available

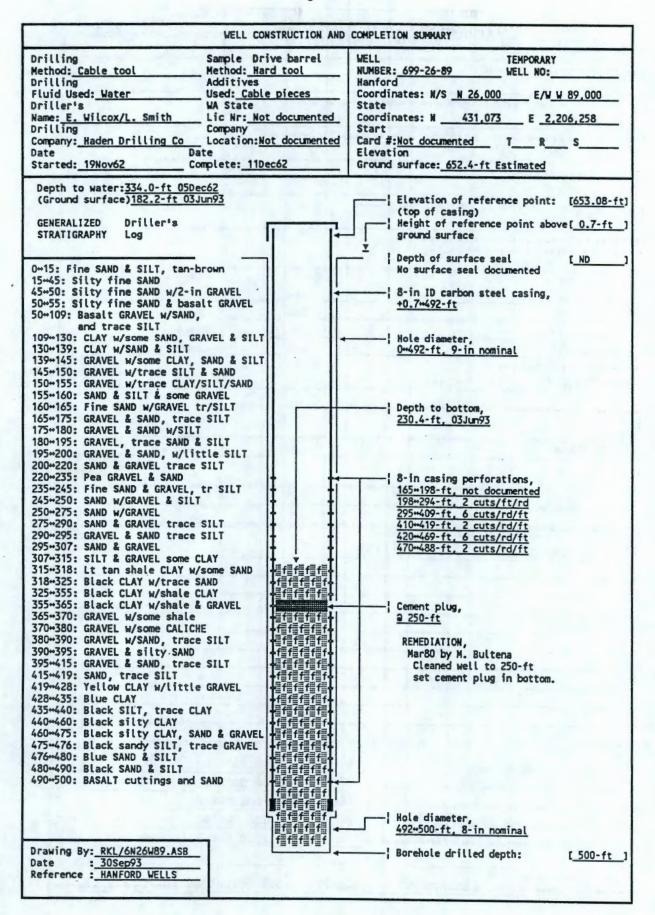
7543322.1733EDT 600202 Item 11 Page 2 of 4

	RESOURCE PROTECTION GROUNDWATER WELL.
	RESOURCE PROTECTION GROUNDWATER WELL. STRUCTURE FITNESS FOR USE CHECKLIST
e i de No	construction data available
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	1 0/4
	The grant authorized points of the
<i>:</i>	
	Conditioners transfer the self of the

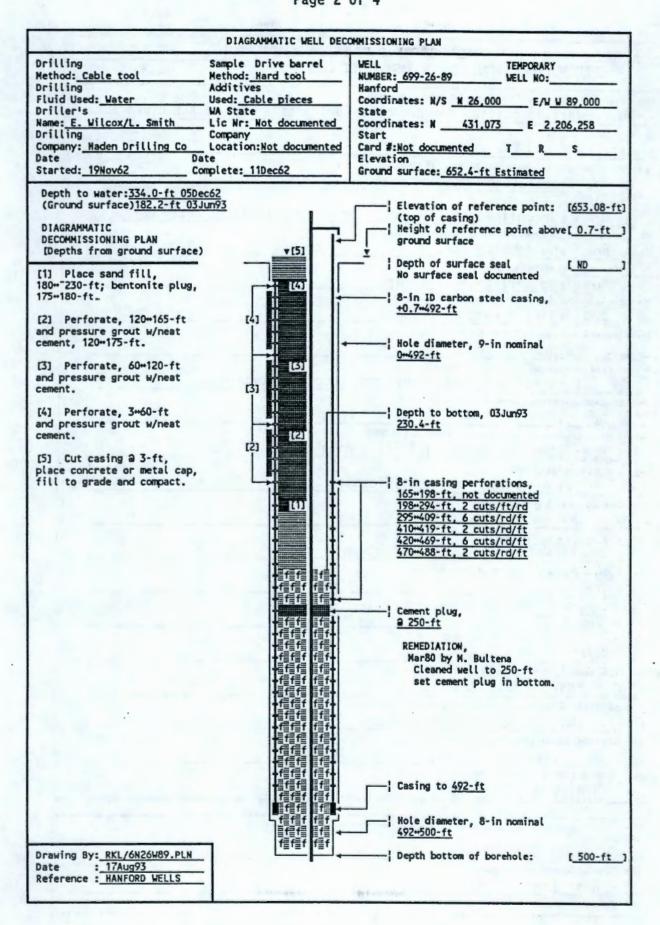
#### 1. Well No. 699-24-95 RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST Page 1 of 2 2. Has a need for use of the well been identified and documented? ND | Well identified for decommissioning as a part of ALE cleanup 3. Is well presently in use? Yes Rattlesnake Springs ALE water supply 4. Is casing sealed in accordance with IAW WAC 173-160-075? [ ND ] Not document, no construction information available 4a. Natural barriers preserved? 1 ND 1\_ 4b. Aquifer/strata pentrated permanently sealed? 4c. Annulus sealed against surface water? I ND 1 4d. Casing overlap more than 8 ft; packed and grouted? [ ND ] 5. If not in use, is well capped IAW WAC 173-160-085? 6. Is design and construction IAW WAC 173-160-500? ( ND \_ 1 \_ 6a. Saturated formation/aquifers not connected? ( ND 1 6b. Cuttings/development water handled IAW WAC 173-303? I ND 1 6c. Well properly indentified? 7. Is surface protection IAW WAC 173-160-5107 ( ND ) \_\_\_ 7e. Well capped and protected? I ND 1 7b. Protective posts, surface pad or cover installed? [ ND ] 1\_ 7c. Surface protection waived or variance obtained? t ND 1 7d. Is existing surface protection damaged? 8. Are casing materials IAW 173-160-5207 9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? 9a. Drill rig/equipment casing/screen cleaned? 1 ND 1\_ 9b. Filter pack cleaned? Material compatible? , ND RCRA/CERCLA MONITORING WELL? 10. Does water sample from vertical screened interval represent horizontal [ ND 1\_ 10s. Screened interval documented? ( ND 1\_ 10b. Vertical lithology documented? I ND

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	699-24-95	
STRUCTURE FITNESS FOR USE CHECKLIST	Page 2 of 2	
Is design and construction IAW WAC 173-160-5407		
I ND 1		
11a. Screen commercially fabricated of material nonreactive to subsurface conditions?  [ ND ]		
11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen.	•	
( ND 1		
11c. Well has been developed.		
[ ND ]  11d. Annulus grouted with bentonite or bentonite/cement mixture.		
Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free.	190	
( ND )		
Date Sources Used: Logs: Driller's: ND Date:	Common	
ND	Company:	
	Company:	
Television: ND Date:		
Publications: Title, Author, Date	Company:	
HANFORD WELLS, V. 1. McGhan, June, 1989		
Databases: N/A		
Nana	Company:	
Field Check: NOTIC		
	Company.	
Other:	Company.	
	Company.	
	Company.	
Other:  Comments: Identify evaluation criteria addressed by number:	Company.	
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Other:  Comments: Identify evaluation criteria addressed by number:	Company.	
Other:  Comments: Identify evaluation criteria addressed by number:	Company.	
Comments: Identify evaluation criteria addressed by number:  [15] No construction data available.		
Comments: Identify evaluation criteria addressed by number:  [15] No construction data available.  Status  Well is acceptable for intended use  [ND] Not docum	ented	
Comments: Identify evaluation criteria addressed by number:  [15] No construction data available.  Status  Well is acceptable for intended use  Well is acceptable for intended use if variance is granted [ ND ] Not docum	ented	
Comments: Identify evaluation criteria addressed by number:  [15] No construction data available.  Status  Well is acceptable for intended use  Well is acceptable for intended use if variance is granted [ ND ] Not docum.  Rehabilitation required to continue intended use [ ND ] Not docum.	ented ented ented	
Comments: Identify evaluation criteria addressed by number:  [15] No construction data available.  Status  Well is acceptable for intended use  Well is acceptable for intended use if variance is granted [ ND ] Not docum Rehabilitation required to continue intended use [ ND ] Not docum Remediation required to achieve intended use [ ND ] Not docum	ented ented ented ented ented	
Comments: Identify evaluation criteria addressed by number:  [15] No construction data available.  Status  Well is acceptable for intended use  Well is acceptable for intended use if variance is granted [ ND ] Not docum Rehabilitation required to continue intended use [ ND ] Not docum Remediation required to achieve intended use [ ND ] Not docum	ented ented ented	
Comments: Identify evaluation criteria addressed by number:  [15] No construction data available.  Status  Well is acceptable for intended use  Well is acceptable for intended use if variance is granted [ ND ] Not docum Rehabilitation required to continue intended use [ ND ] Not docum Remediation required to achieve intended use [ ND ] Not docum	ented ented ented ented ented	



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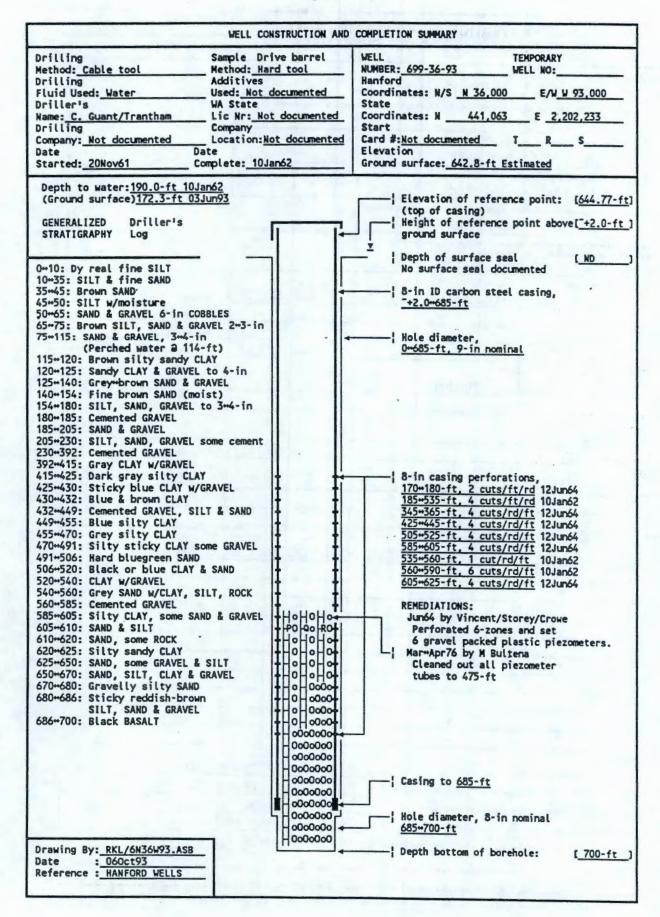


#### 1. Well No. 699-26-89 RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST Page 1 of 2 2. Has a need for use of the well been identified and documented? ND | Well identified for decommissioning as a part of ALE cleanup 3. Is well presently in use? Yes , WHC and PNL water levels 4. Is casing sealed in accordance with IAW WAC 173-160-075? No No surface or annular seal 4a. Natural barriers preserved? ( N/A ) Unconfined aquifer, may contain semiconfined aquifers 4b. Aquifer/strata pentrated permanently sealed? No No annular seal 4c. Annulus sealed against surface water? No No surface seal or pad 4d. Casing overlap more than 8 ft; packed and grouted? N/A | Single casing string 5. If not in use, is well capped IAW WAC 173-160-085? N/A Capped and locked 6. Is design and construction IAW WAC 173-160-500? NO Does not meet water well construction standards 6a. Saturated formation/aquifers not connected? ND See 4a 6b. Cuttings/development water handled IAW WAC 173-303? N/A Drilled before effective date of WAC 173-303 6c. Well properly indentified? No Nor permanent identification 7. Is surface protection IAW WAC 173-160-510? [ No ] No surface protection 7a. Well capped and protected? No Well capped, no protection 7b. Protective posts, surface pad or cover installed? I No 1\_ 7c. Surface protection waived or variance obtained? t No 1 7d. Is existing surface protection damaged? I N/A 1 8. Are casing materials IAW 173-160-520? ND | Carbon steel casing 9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? ND Not documented, assumed not 9a. Drill rig/equipment casing/screen cleaned? ND Not documented, assumed not 9b. Filter pack cleaned? Material compatible? N/A No filter pack RCRA/CERCLA MONITORING WELL? 10. Does water sample from vertical screened interval represent horizontal ND Not documented 10a. Screened interval documented? ( N/A ) No screen 10b. Vertical lithology documented? Yes | Driller's log

9513322.1736

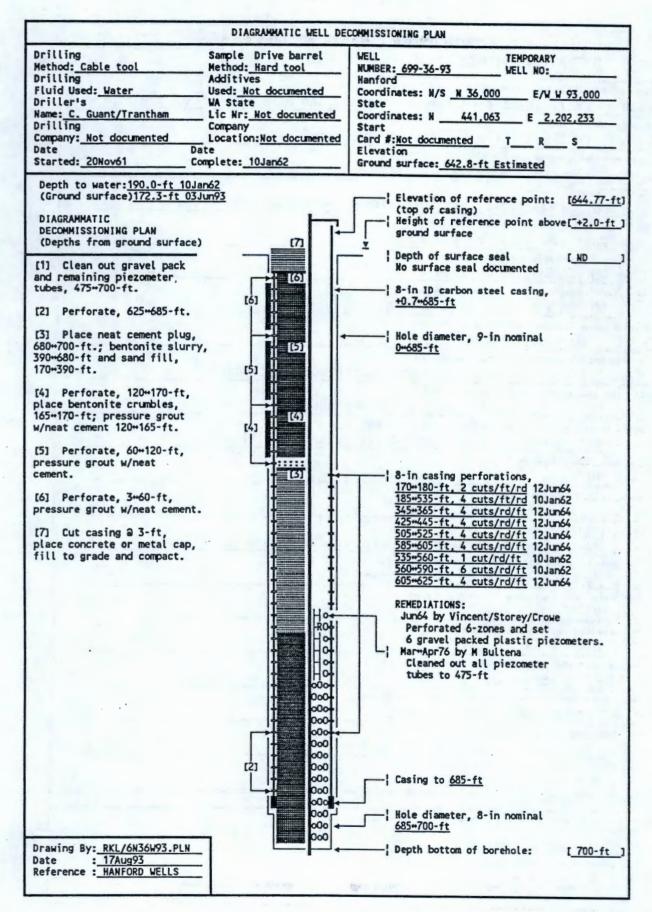
EDT 600202 Item 12 Page 4 of 4

RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. 699-26-89			
11. Is design and construction IAW WAC 173-160-540?				
No Does not meet requirements				
11a. Screen commercially fabricated of material nonreactive to subsurface conditions?				
( N/A ) No screen				
11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen.	-1 -1 4			
I N/A 1 No filter pack				
11c. Well has been developed.  ( ND   Not documented				
[ ND ] NOT GOCUMENTEG  11d. Annulus grouted with bentonite or bentonite/cement mixture.				
( No ) No annular seal	- 11 to 12 t			
12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free.  [ ND ] Not documented				
13. Data Sources Used:				
Logs: Driller's: Wilcox/Smith, Haden Drilling Date: 12/11/62	Company:			
Geologist: N/A Date:	Company:			
Geophysical: N/A -Date:	Company:			
Television: N/A Date:	Company:			
Publications: Title, Author, Date				
HANFORD WELLS, V. L. McGhan, June 1989				
WHC GWWS  Field Check: WHC GWWS  Other:  14. Comments: Identify evaluation criteria addressed by number:	3 Company:			
[15] Well does not meet monitoring well construction	criteria.			
	7.1			
15. Status				
Well is acceptable for intended use [ No ] No surface/	annular seal			
Well is acceptable for intended use if variance is granted [ No ] No surface				
Rehabilitation required to continue intended use [ Yes ] Well has fi				
Remediation required to achieve Intended use [ Yes ] Surface sea				
Decommission, well is unneeded or cannot be remediated [ Yes ] Required for ALE cleanup				
Other [ ] ]				
16. Status Recommendation Done By: Name: R. K. Ledgerwood Title: Principal Scient	tist Date: 10/29/93			



73/33/2.1737 EDT 600202 Item 13

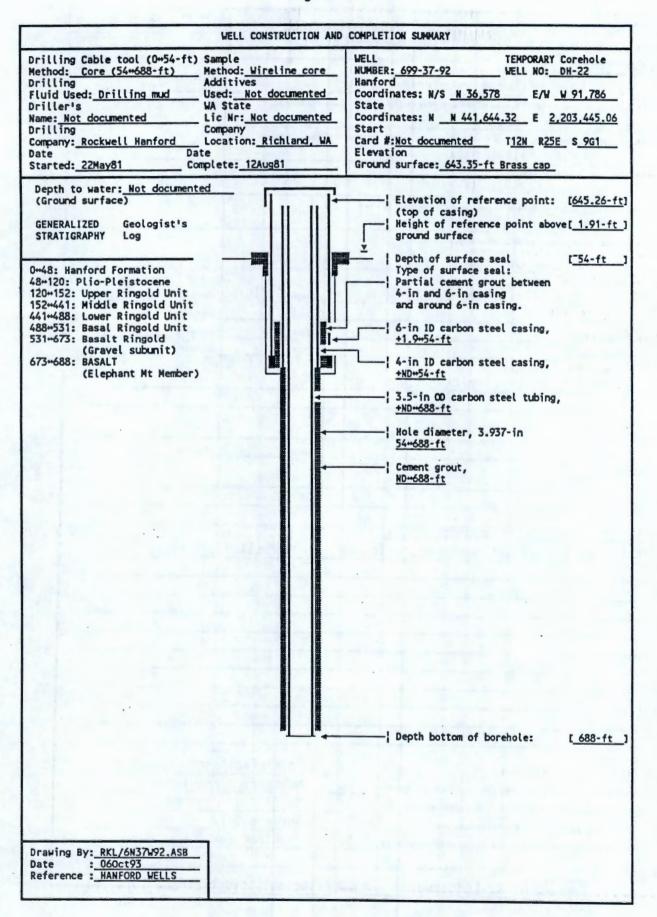
Page 2 of 4



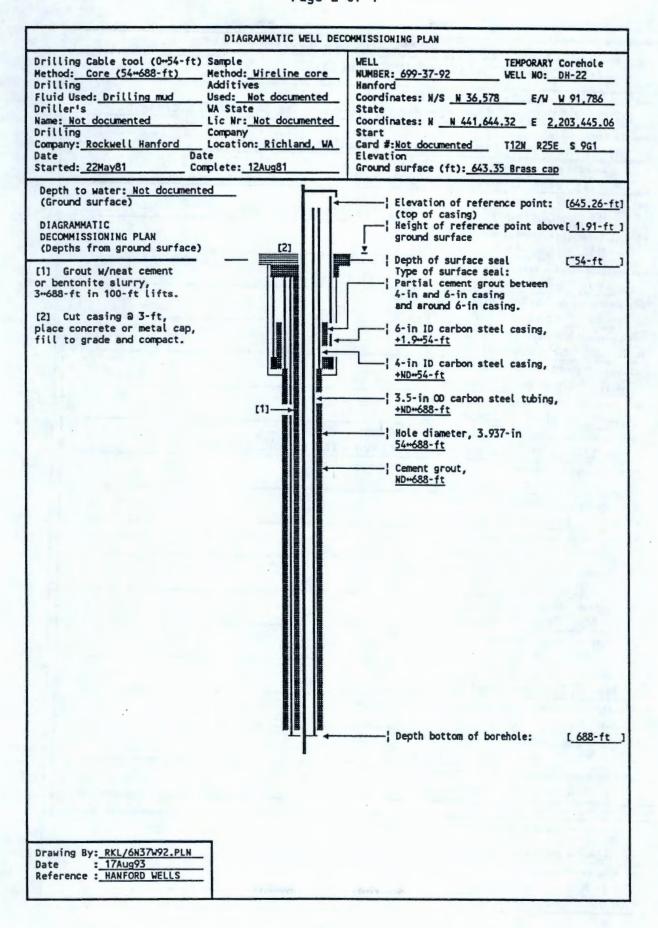
#### 1. Well No. RESOURCE PROTECTION GROUNDWATER WELL 699-36-93 STRUCTURE FITNESS FOR USE CHECKLIST Page 1 of 2 2. Has a need for use of the well been identified and documented? [ ND ] Well identified for decommissioning as a part of ALE cleanup 3. Is well presently in use? Yes | WHC and PNL water levels, PNL sampling 4. Is casing sealed in accordance with IAW WAC 173-160-075? No No surface or annular seal 4a. Natural barriers preserved? [ No ] Has gravel packed piezometers, no seals or plugs 4b. Aquifer/strata pentrated permanently sealed? [ No ] No seals or plugs 4c. Annulus sealed against surface water? [ No ] No surface seal 4d. Casing overlap more than 8 ft; packed and grouted? ND | Singles casing string 5. If not in use, is well capped IAW WAC 173-160-085? ND Not documented 6. Is design and construction IAW WAC 173-160-500? No Does not meet water well construction standards 6a. Saturated formation/aquifers not connected? [ ND ] May contain aquifer interconnection 6b. Cuttings/development water handled IAW WAC 173-303? N/A Drilled before effective data of WAC 173-303 6c. Well properly indentified? I ND 1 7. Is surface protection IAW WAC 173-160-510? 1 No 1 No surface protection 7a. Well capped and protected? ND Cap not documented, assumed capped and locked 7b. Protective posts, surface pad or cover installed? [ No ] No posts or pad assumed 7c. Surface protection waived or variance obtained? [ No ] 7d. Is existing surface protection damaged? 1 N/A 1 8. Are casing materials IAW 173-160-520? 1 ND 1 Carbon steel casing 9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? [ ND ] Not documented, assumed no 9a. Drill rig/equipment casing/screen cleaned? [ ND ] Not documented, assumed no 9b. Filter pack cleaned? Material compatible? 1 N/A 1 No filter pack RCRA/CERCLA MONITORING WELL? 10. Does water sample from vertical screened interval represent horizontal [ ND ] Not documented 10a. Screened interval documented? [ N/A ] No screen 10b. Vertical lithology documented? Yes Driller's log

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RESOURCE PROTECTION GROUNDWATER WE	
STRUCTURE FITNESS FOR USE CHECKLIST	Page 2 of 2
11. Is design and construction IAW WAC 173-160-540?	
No Does not meet requirements	
11a. Screen commercially fabricated of material nonreactive to subsurface cond	litions?
N/A No screen	
11b. If filter pack installed, extends from bottom of screen to at least 3 ft above	e screen.
( N/A ) No filter pack	
11c. Well has been developed.	
11d. Annulus grouted with bentonite or bentonite/cement mixture.	
[ N/A ] No annular seal	
12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free.  ( ND   Not documented	
13. Data Sources Used:	•
Logs: Driller's: Grant/Trantham, Co ND Det	te: 01/10/62 Company:
Geologist: N/A Det	te: Company:
	te: Company:
	te:Company:
Publications: Title, Author, Date	7710 121
HANFORD WELLS, V. L. McGhan, June 1989	
Other:  14. Comments: Identify evaluation criteria addressed by number:  [15] Well does not meet monitoring well con	nstruction criteria.
	1
	•
15. Status Well is acceptable for intended use [ No ] No	o surface/annular seal
11 11	o surface/annular seal
Al _ Al	
Vac	o fill documented urface sela
V D	
	equired for ALE cleanup
Other [ ]	
16. Status Recommendation Done By: Name: R. K. Ledgerwood Title: Princ	ipal Scientist Date: 10/29/93
Done By: Name: K. K. Ledger Wood Inc. 17 THC	A-6000-4518 (06)



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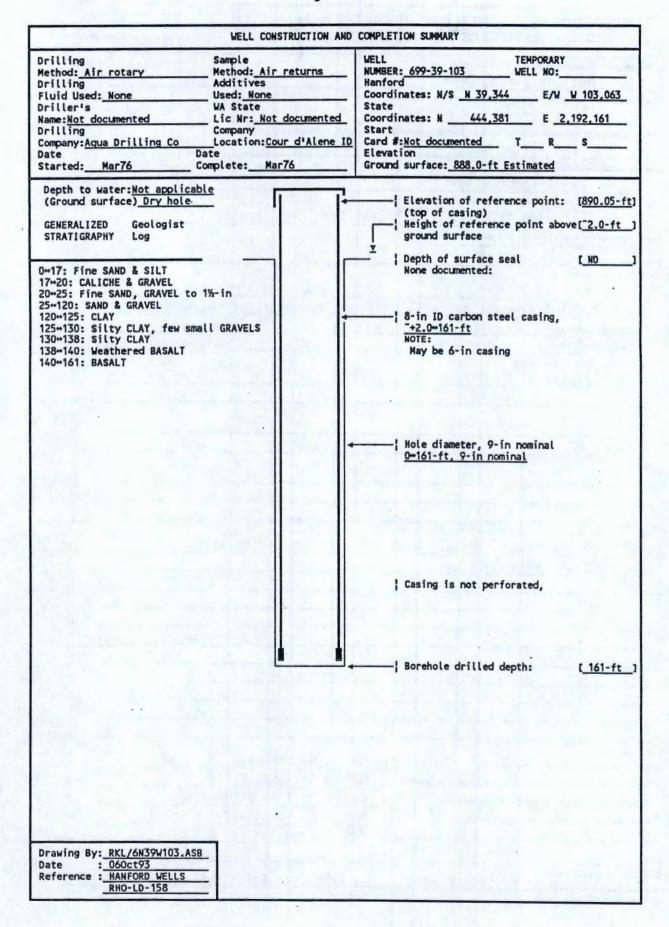
# RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST

1. Well No. 699-37-92

	STRUCTURE FITNESS FOR USE CHECKLIST	Page 1 of 2
2	Has a need for use of the well been identified and documented?	
4.	ND   Well identified for decommissioning as part of	ALE cleanup
•	Is well presently in use?	
J.	Yes   PNL water levels, possible confined monitoring	the same of the sa
	Is casing sealed in accordance with IAW WAC 173-160-075?	
4.	No 1 Casing is partially gerouted	
	4a. Natural barriers preserved?	
	[ No 1 Casing is grouted but less than 2-in annulu	s
	4b. Aquifer/strata pentrated permanently sealed?	
	No   See 4a.	
	4c. Annulus sealed against surface water?	
	Yes   Has partial surface seal to 54-ft	4
	4d. Casing overlap more than 8 ft; packed and grouted?	
	Yes   See well construction drawing	
5.	If not in use, is well capped IAW WAC 173-160-085?	
	ND Not documented	
6.	Is design and construction IAW WAC 173-160-500?	
	N/A   Core hole, not monitoring well	
	6a. Saturated formation/aquifers not connected?	
	[ ND ] Not documented	
	6b. Cuttings/development water handled IAW WAC 173-303?	
	N/A Drilled before effective date of WAC 173-30	)3
	6c. Well properly indentified?	
	ND Not documented	
7.	Is surface protection IAW WAC 173-160-510?	
	ND Not documented	
	7a. Well capped and protected?	
	ND Not documented, assumed capped	
	7b. Protective posts, surface pad or cover installed?	-
	( ND ) Not documented	
	7c. Surface protection waived or variance obtained?	
	( ND ) No documented	
	7d. Is existing surface protection damaged?  [ ND ] Not documented	
	ND Not documented Are casing materials IAW 173-160-520?	
8.	ND 1 Carbon steel casing	
9	Was drill rig/drilling equipment cleaned IAW WAC 173-160-530?	
3.	No Not monitoring well	
	9a. Drill rig/equipment casing/screen cleaned?	
	No Not monitoring well	
	9b. Filter pack cleaned? Material compatible?	
	N/A No filter pack	
RC	RA/CERCLA MONITORING WELL?	
_	D. Does water sample from vertical screened interval represent horizontal	
	stratigraphy?	
	N/A Not monitoring well	
	10a. Screened interval documented?	
	( N/A ) No screen	
	10b. Vertical lithology documented?	
	(_Yes Geologist's core log	

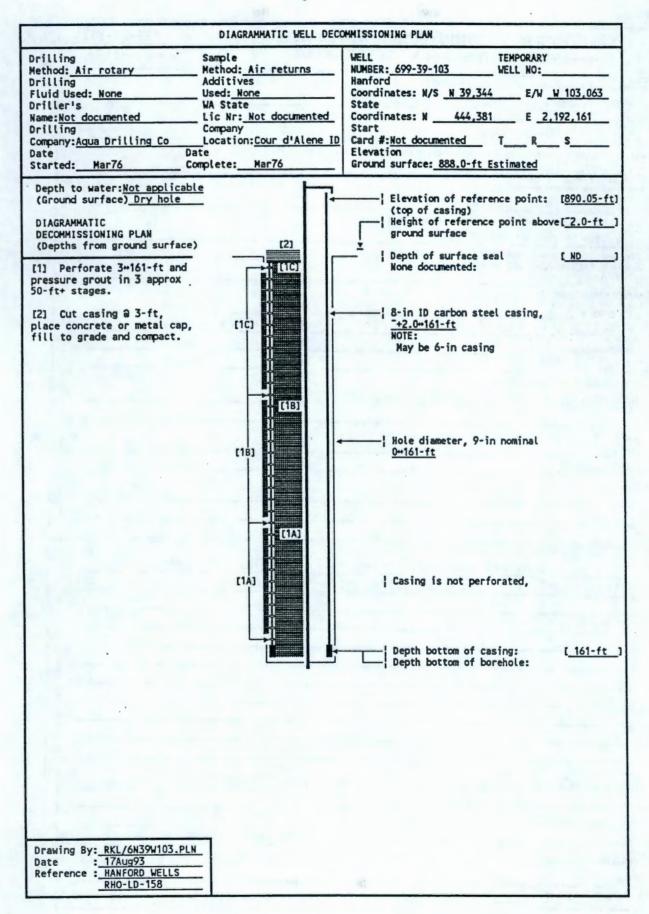
75/3322.1740<sub>EDT</sub> 600202 Item 14 Page 4 of 4

RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. 699-37-92 Page 2 of 2			
11. is design and construction IAW WAC 173-160-540?  [ N/A ] Not monitoring well				
11e. Screen commercially fabricated of material nonreactive to subsurface conditions?  [ N/A ] No screen				
11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen.  [ N/A ] No filter pack				
11c. Well has been developed.				
[ ND ] Not documented  11d. Annulus grouted with bentonite or bentonite/coment mixture.  [ No ] Casing is grouted with less than 2-in annulus				
13. Data Sources Used: Logs: Driller's: N/A Date:	Company:			
Geologist: Not document, Rockwell Hanford Date: 08/21/	/81 Company:			
Geophysical: N/A Date:	Company:			
Television: N/A Date:	Company:			
Publications: Title, Author, Date				
HANFORD WELLS, V. L. McGhan, June 1989				
Databases:				
Field Check: N/A Date:	Company:			
Other:				
14. Comments: Identify evaluation criteria addressed by number: [15] Drilled as core hole. Does not meet monitoring	ng well			
construction criteria.				
	<u> </u>			
45 Consu				
Well is acceptable for intended use [ ND ] No screen				
Well is acceptable for intended use if variance is granted [ N/A 1 Not applic	cable			
Rehabilitation required to continue intended use [ No ] No fill do				
Remediation required to achieve intended use [ ND ] No remediation planned				
Decommission, well is unneeded or cannot be remediated [ Yes ] Required for ALE cleanup				
Other [ ]				
16. Status Recommendation Done By: Name: R. K. Ledgerwoodq Title: Principal Sci	entist Date: 10/29/93			
	A-6000-451P (06/02)			



95/3322.1741

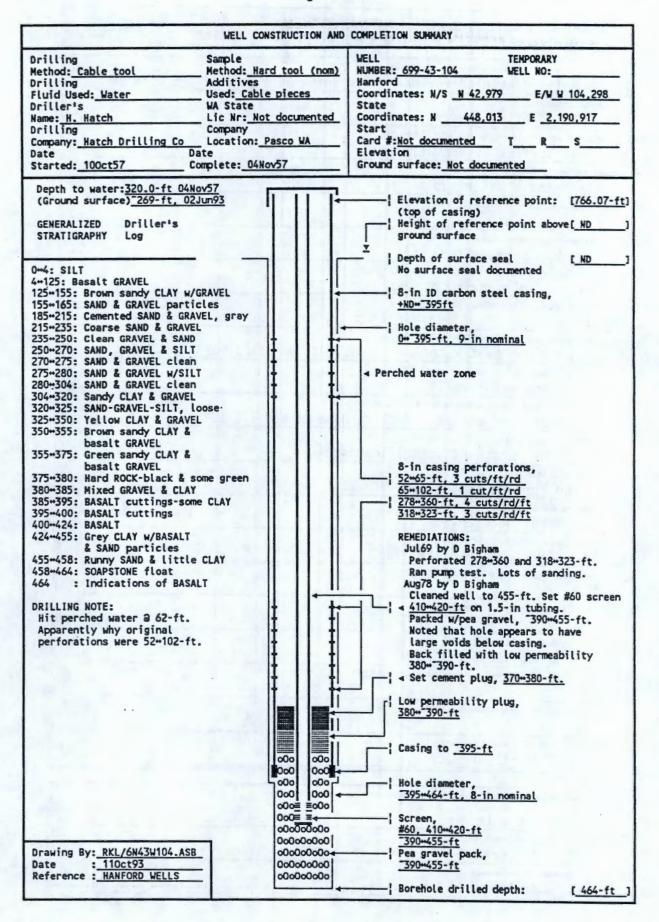
EDT 600202 Item 15 Page 2 of 4



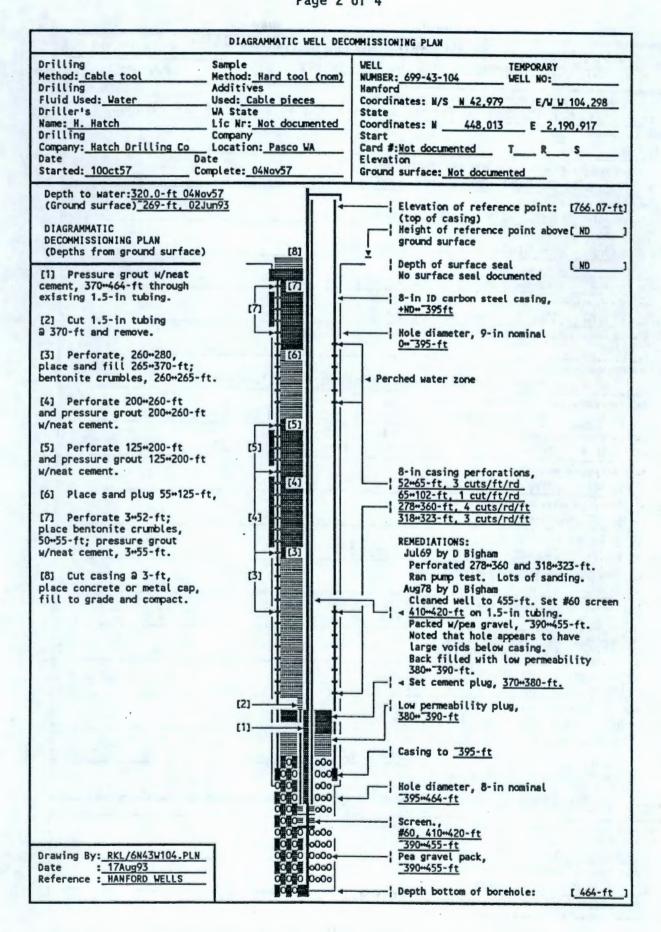
RESOURCE PROTECTION GROUNDWATE		699-39-103
STRUCTURE FITNESS FOR USE CHECK	CLIST	Page 2 of 2
11. Is design and construction IAW WAC 173-160-540?		
No Does not meet requirements		
11a. Screen commercially fabricated of material nonreactive to subsurfa	ce conditions?	
I N/A 1 No screen	And the Land	
11b. If filter pack installed, extends from bottom of screen to at least 3	ft above screen.	
(_N/A_)No filter pack		
11c. Well has been developed.		
N/A Well not to water		
11d. Annulus grouted with bentonite or bentonite/cement mixture.		
[ No ] No annular seal		
12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free.  [ N/A ]		
13. Data Sources Used:		
Logs: Driller's: N/A	Data: Co	mpany:
Geologist: Atlantic Richfield Hanford	Date: Mar1976 co	mpany:
Geophysical: N/A	Date:Co	mpany:
Television: N/A	Date: Co	mpany:
Publications: Title, Author, Date		
HANFORD WELLS, V. L. McGhan, June 1989		
Databases: N/A		
Field Check: N/A	Date:C	ompany:
Other:		
14. Comments: Identify evaluation criteria addressed by number:	Cuitonia Duill	lad as
[15] Well does not meet monitoring well		led as
entrance hole for possible coring, does	not reach water.	
15. Status		
Well is acceptable for intended use [ NO	1 No intended use	
Well is acceptable for intended use if variance is granted [ No	ı N/A	
Rehabilitation required to continue intended use [ No	No rehab of val	ue
Remediation required to achieve intended use [ No	No remediation	
Decommission, well is unneeded or cannot be remediated { Yes	Required for Al	
	1 nequired for AL	L Cicanap
Other [ [ ]		
Done By: Name: R. K. Ledgerwood Title: P	rincipal Scientist	Date: 10/29-93
		1 0000 1510 1000

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	RESOURCE PROTECTION GROUNDWATER WELL 699-39-103	
	STRUCTURE FITNESS FOR USE CHECKLIST Page 1 of 2	
2.	Has a need for use of the well been identified and documented?	
	No   Well identified for decommissioning as a part of ALE cleanup	
3.	Is well presently in use?	
	No No identified user	
4.	Is casing sealed in accordance with IAW WAC 173-160-075?	
	No No surface or annular seal	
	4a. Natural barriers preserved?	- 5/
	N/A Above water table	
	4b. Aquifer/strata pentrated permanently sealed?	
	N/A See 4a.	
	4c. Annulus sealed against surface water?	
	No No surface seal	
	4d. Casing overlap more than 8 ft; packed and grouted?	
	N/A   Single casing string	
5.	If not in use, is well capped IAW WAC 173-160-085?	
	( N/A )	
6.	Is design and construction IAW WAC 173-160-500?	
	N/A Does not meet water well construction standards	1
	6a. Saturated formation/aquifers not connected?	
	[ N/A · ] Not water well	- 1
	6b. Cuttings/development water handled IAW WAC 173-303?	
	N/A Drilled before effective date of WAC 173-303	100
	6c. Well properly indentified?	
	No No permanent identification	
7	Is surface protection IAW WAC 173-160-5107	
1.	No No surface protection	
	7a. Well capped and protected?	
	ND Not documented	
	7b. Protective posts, surface pad or cover installed?	
	No No surface protection	
	7c. Surface protection waived or variance obtained?	
	( N/A )	
	7d. Is existing surface protection damaged?	
	[ N/A ]	
	Are casing materials IAW 173-160-5207	
0.	ND 1 Carbon steel casing	
	Was drill rig/drilling equipment cleaned IAW WAC 173-160-530?	
3.	[ NO ]	
-	9a. Drill rig/equipment casing/screen cleaned?	
	N-	
	9b. Filter pack cleaned? Material compatible?	
	N/A No filter pack	
-		
	A/CERCLA MONITORING WELL?	
10	Does water sample from vertical screened interval represent horizontal stratigraphy?	
-	N/A Not to water	
	10a. Screened interval documented?	
	N/A No screen	
	10b. Vertical lithology documented?	
	(_Yes_) Geologist's log	
_		



7513322.1743 EDT 600202 Item 16 Page 2 of 4



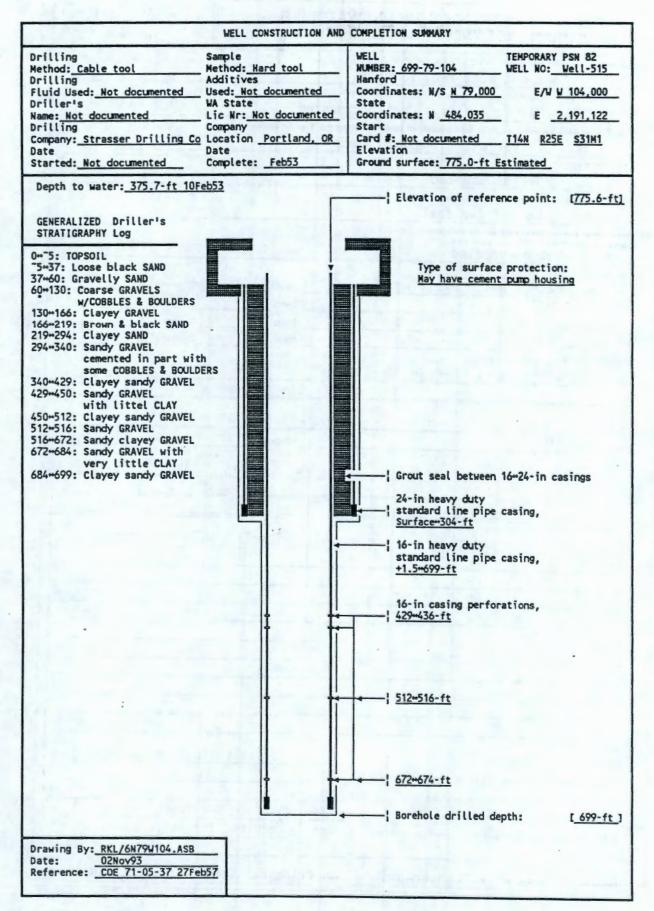
#### 1. Well No. RESOURCE PROTECTION GROUNDWATER WELL 699-43-104 STRUCTURE FITNESS FOR USE CHECKLIST 2. Has a need for use of the well been identified and documented? [ ND ] Well identified for decommissioning as a part of ALE cleanup 3. Is well presently in use? Yes | WHC and PNL water levels 4. Is casing sealed in accordance with IAW WAC 173-160-075? No No surface or annular seal 4a. Natural barriers preserved? No Perched water zone perforated 4b. Aquifer/strata pentrated permanently sealed? No No plugs or seals documented 4c. Annulus sealed against surface water? No No surface or annular seal 4d. Casing overlap more than 8 ft; packed and grouted? N/A Has 1.5-in piezometer 5. If not in use, is well capped IAW WAC 173-160-085? I N/A 1 6. Is design and construction IAW WAC 173-160-500? No Does not meet water well construction standards 6a. Saturated formation/aquifers not connected? [ No ] Perched, unconfined and semiconfined may be connected 6b. Cuttings/development water handled IAW WAC 173-303? N/A Drilled before effective date of WAC 173-303 6c. Well properly indentified? [ ND ] Not documented 7. Is surface protection IAW WAC 173-160-510? No No surface protection 7a. Well capped and protected? ( ND ) Assumed capped and locked 7b. Protective posts, surface pad or cover installed? ( No ) 7c. Surface protection waived or variance obtained? [ N/A ] 7d. Is existing surface protection damaged? ND Not documented 8. Are casing materials IAW 173-160-520? ND | Casing is carbon steel 9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-5307 ND Not documented, assumed not 9a. Drill rig/equipment casing/screen cleaned? ND Not documented, assumed not 9b. Filter pack cleaned? Material compatible? N/A No filter pack RCRA/CERCLA MONITORING WELL? 10. Does water sample from vertical screened interval represent horizontal [ ND ] Not documented 10a. Screened interval documented? N/A No screen 10b. Vertical lithology documented? Yes Driller's log

75/3322 1744

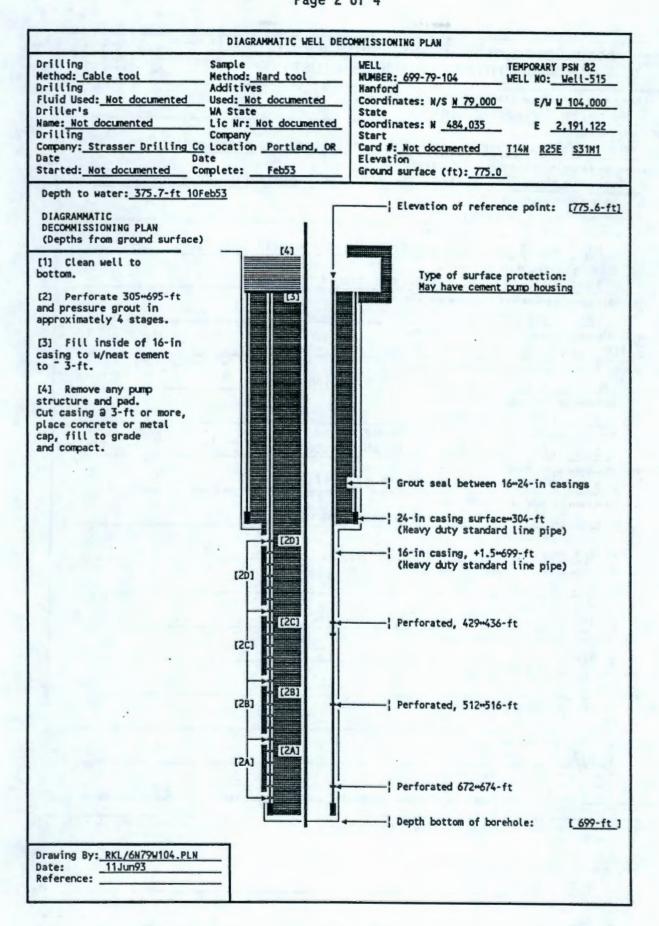
EDT 600202 Item 16 Page 4 of 4

RESOURCE PROTECTION GROUNDWATER STRUCTURE FITNESS FOR USE CHECKL		1. Well No. 699-43-104 Page 2 of 2			
44 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4					
11. Is design and construction IAW WAC 173-160-5407  [ No ] Does not meet requirements					
11a. Screen commercially fabricated of material nonreactive to subsurface		4			
ND Has screen, type not documente					
11b. If filter pack installed, extends from bottom of screen to at least 3 ft	above screen.	- 10			
Yes   Filter pack is gravel pack	Yes   Filter pack is gravel pack				
11c. Well has been developed.					
[ ND ] Not documented					
11d. Annulus grouted with bentonite or bentonite/cement mixture.					
( No ) No annular seal					
12. Does water sample meet established acceptance criterie? Sample is less than 5 NTU and sand free.  [ ND ] Not documented					
13. Data Sources Used:					
Driller's: Hathc, Hatch Drilling	Date: 11/05/57	Company:			
Geologist: N/A	Date:	Company:			
Geophysical: N/A		Company:			
Television: N/A					
Publications: Title, Author, Date					
HANFORD WELLS, V. L. McGhan, June 1989					
Databases: WHC GWWS		ned to the			
Field Check: N/A	Date:	Company:			
Other:					
14. Comments: Identify evaluation criteria addressed by number:					
[15] Well does not meet monitoring well	criteria. We	ell interconnects			
aquifers.	4				
		·····			
45 844					
15. Status  Well is acceptable for intended use  [ No ]	No seals/has	interconnection			
No	Jedis/ilds	, most confice toff			
No					
Vaa	Cunface	/waduan intarial			
		/reduce interval			
Decommission, well is unneeded or cannot be remediated [ Yes ]	kequired for	r ALE cleanup			
Other[					
16. Status Recommendation Done By: Name: R. K. Ledgerwood Title: Pri	ncipal Scient	tist Date: 10/29/93			

A-6000-451R (06/93)



9513322.1745EDT 600202 Item 17 Page 2 of 4



#### 1. Well No. RESOURCE PROTECTION GROUNDWATER WELL 699-79-104 STRUCTURE FITNESS FOR USE CHECKLIST Page 1 of 2 2. Has a need for use of the well been identified and documented? No No documented use 3. Is well presently in use? No Well is abandoned, but has not been decommissioned 4. Is casing sealed in accordance with IAW WAC 173-160-075? Yes Casings are sealed, see attached construction drawing 4a. Natural barriers preserved? Yes | See drawing 4b. Aquifer/strata pentrated permanently sealed? N/A Well does not penetrate basalt confined aquifers 4c. Annulus sealed against surface water? Yes Has grouted entrance casing to 304-ft 4d. Casing overlap more than 8 ft; packed and grouted? [ Yes ] See drawing 5. If not in use, is well capped IAW WAC 173-160-085? ND Capping method not documented 6. Is design and construction IAW WAC 173-160-500? N/A Well is not a resource protection well 6a. Saturated formation/aquifers not connected? N/A Well is water well 6b. Cuttings/development water handled IAW WAC 173-303? N/A Drilled before applicable date of WAC 173-303 6c. Weil properly indentified? N/A Well has no permanent identification 7. Is surface protection IAW WAC 173-160-510? N/A Well is not resource protection well 7a. Well capped and protected? [ N/A ] . 7b. Protective posts, surface pad or cover installed? ( N/A ) 7c. Surface protection waived or variance obtained? [ N/A ] 7d. Is existing surface protection damaged? [ N/A ] 8. Are casing materials IAW 173-160-520? [ N/A ] 9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? I N/A I 9a. Drill rig/equipment casing/screen cleaned? [ N/A ] 9b. Filter pack cleaned? Material compatible? r N/A 1 RCRA/CERCLA MONITORING WELL? 10. Does water sample from vertical screened interval represent horizontal stratigraphy? [ N/A ] 10s. Screened interval documented?

A-6000-451 (06/93)

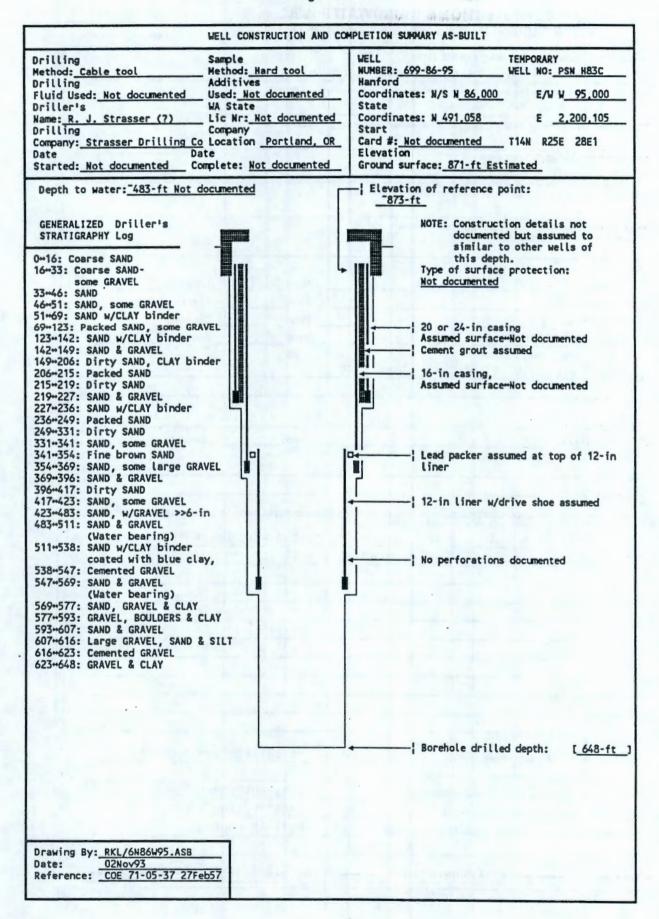
[ N/A ] No screen

10b, Vertical lithology documented?

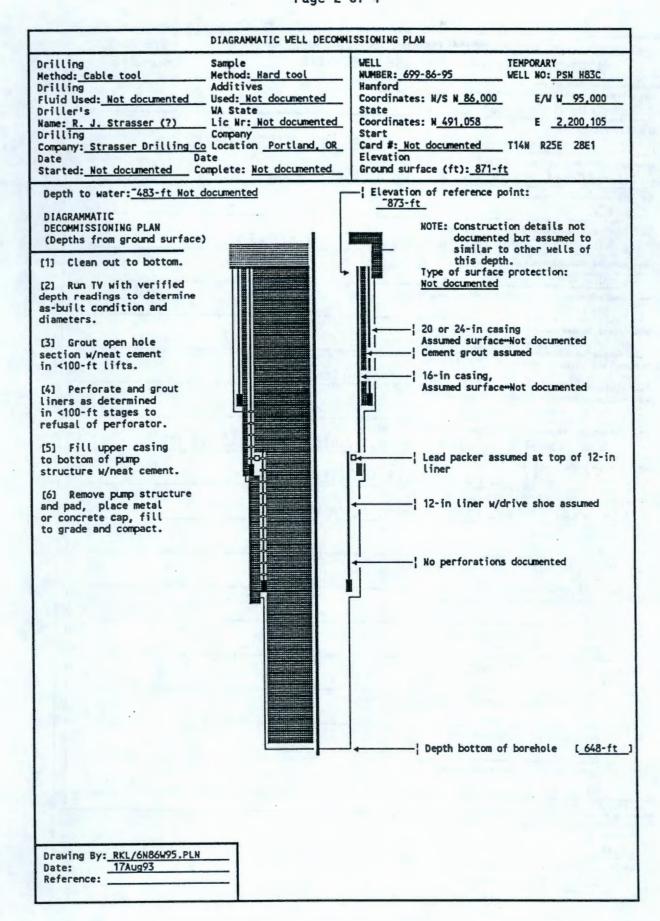
Yes | Driller's Log

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST		1. Well No. 699-79-104
		Page 2 of 2
	ls design and construction IAW WAC 173-160-540?  N/A   Well is not resource protection well	
11a. Screen commercially fabricated of material nonreactive to subsurface conditions?		
	[ N/A ]	
	11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen.	
	11c. Well has been developed.	
	[ N/A ]	
	[ N/A ]  Does water sample meet established acceptance criteria?	
12.	Does water sample meet established acceptance circenar  Sample is less than 5 NTU and sand free.  [ N/A ]	
	Data Sources Used:	
	Logs: Driller's: Strasser Drilling Co Date: 02/28/53	
	Geologist: N/A Date:	Company:
	Geophysical: N/A Date:	Company:
	Television: N/A Date:	Company:
	Publications: Title, Author, Date	41 TO THE RESERVE OF THE PARTY
	HANFORD WELLS, V. L. McGhan, June 1989	
	Databases:	
	N/A	
	Field Check: N/A Date:	Company:
	Other:	
14	Comments: Identify evaluation criteria addressed by number:	
14.	[15] Well is not in use and has no documented use. De	ecommissioning is
	recommended. See attached diagrammatic well decommis	
	recommended.	soroning prant
		· · · · · · · · · · · · · · · · · · ·
15.	Status No Dohohilitata	ion magnifued
	Well is acceptable for intended use [ No ] Rehabilitat	ion required
	Well is acceptable for intended use if variance is granted [ N/A ]	
	Rehabilitation required to continue intended use [ Yes ] Cleanout/red	
	Remediation required to achieve intended use [ No 1 Construction	
	Decommission, well is unneeded or cannot be remediated [ Yes ] Well is unne	eeded
	Other [ N/A ]	
16.	Status Recommendation	10/01/00
	Done By: Name: R. K. Ledgerwood Title: Principal Scien	LISL Date: 10/21/93
		A 6000 AEAD 10010



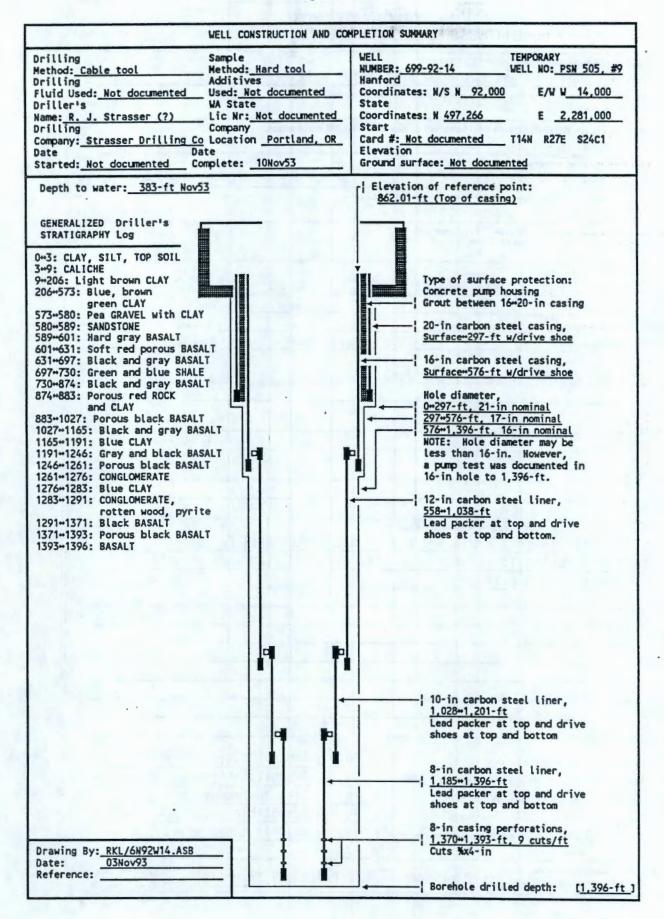
75/3322.1747<sub>EDT</sub> 600202 Item 18 Page 2 of 4

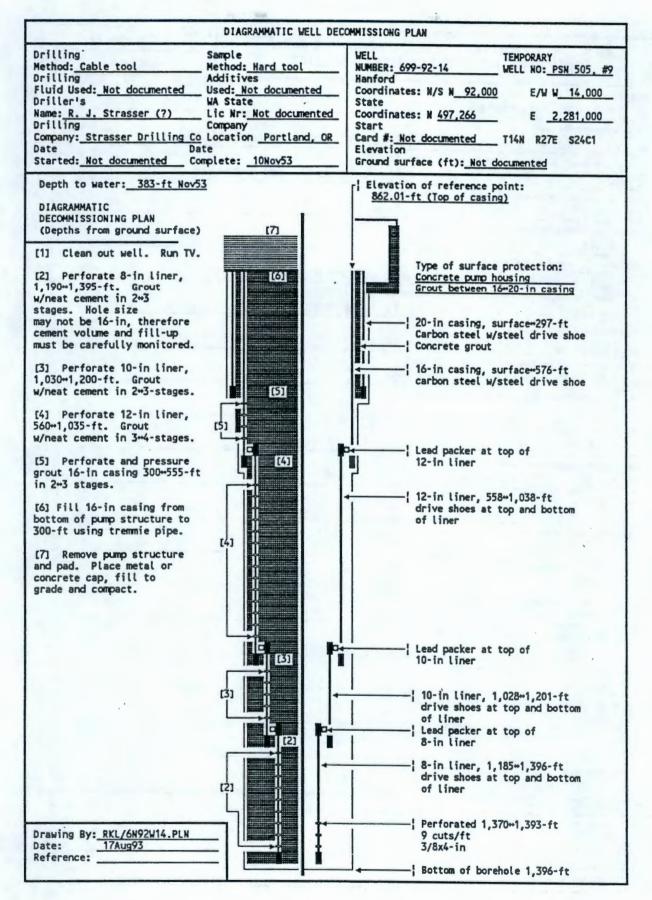


	RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. 699-86-95 Page 1 of 2
2.	Has a need for use of the well been identified and documented?	
	( No ) No documented use	
3.	Is well presently in use?  [ No ] Well is abandoned, but has not been decommiss:	ioned
	Is casing sealed in accordance with IAW WAC 173-160-0757	oned
4.	(_ND) Construction not well documented	
	4a. Natural barriers preserved? [ ND ]	11-
	4b. Aquifer/strata pentrated permanently sealed?	
	( ND ) Well does not penetrate basalt confined aqu	uifers
	4c. Annulus seeled against surface water?  [ ND ]	
	4d. Casing overlap more than 8 ft; packed and grouted?	1 -4-2
5.	If not in use, is well capped IAW WAC 173-160-085?	
	ND 1 Capping method not documented	144
6.	Is design and construction IAW WAC 173-160-500?	
	N/A   Well is not a resource protection well	
	6a. Saturated formation/aquifers not connected?	
	N/A Well is water well	
	6b. Cuttings/development water handled IAW WAC 173-303?	1
	N/A Well drilled before applicable date of WAC	173-303
	6c. Well properly indentified?	
	( No ) Well has no permanent identification	
7.	Is surface protection IAW WAC 173-160-510?	
	N/A Well is not resource protection well	
	7a. Well capped and protected?	
	( N/A 1	
	7b. Protective posts, surface pad or cover installed?	
	( N/A 1	La
	7c. Surface protection waived or variance obtained?	
	( <u>N/A</u> )	
	7d. Is existing surface protection damaged?	
	( <u>N/A</u> )	
8.	Are casing materials IAW 173-160-520?	
	( N/A )	
9.	Was drill rig/drilling equipment cleaned IAW WAC 173-160-530?	
	( N/A 1	
	9a. Drill rig/equipment casing/screen cleaned?	
	( N/A 1	
	9b. Filter pack cleaned? Material compatible?	
	( <u>N/A</u> 1	
	RA/CERCLA MONITORING WELL?	
10	Does water sample from vertical screened interval represent horizontal stratigraphy?     N / A	
	( N/A )	
	10a. Screened interval documented?	
	( N/A ) No screen	
	10b. Vertical lithology documented?  [ Yes ] Driller's log	
	( les Intitiet 2 lod	

7513322.1748<sub>EDT</sub> 600202 Item 18 Page 4 of 4

RESOURCE PROTECTION GROUN	DWATER WELL	1. Well No. 699-86-95
STRUCTURE FITNESS FOR USI	E CHECKLIST	Page 2 of 2
1. Is design and construction IAW WAC 173-160-540?	×	
N/A Well is not resource prof		
11a. Screen commercially fabricated of material nonreactive		
11b. If filter pack installed, extends from bottom of screen	to at least 3 ft above screen.	
1 N/A 1		
11c. Well has been developed.		
[ N/A ]  11d. Annulus grouted with bentonite or bentonite/cement n	nixture.	
[ N/A ]		
2. Does water sample meet established acceptance criteria?  Sample is less than 5 NTU and sand free.  [ N/A ]		
3. Data Sources Used:	1.00	
Driller's: Strasser Drilling, Portl		Company:
Geologist: N/A		Company:
Geophysical: N/A		
Television: N/A	Date:	Company:
Publications: Title, Author, Date HANFORD WELLS, V. L. McGhan, June	1000	
	•	
Databases:		The state of the s
N/A		
	Date:	Company:
Other:		
N/A		
4. Comments: Identify evaluation criteria addressed by number	er.	
[15] Well is not in use and has	no documented need	for use.
Decommissioning is recommended.		
decommissioning plan.	occ accuration aragin	nuncore werr
decommissioning prant		
ARMINISTER OF THE PROPERTY OF		
	1.51.54	
5. Status	No Rehabilita	tion required
Well is acceptable for intended use		tion required
Well is acceptable for intended use if variance is granted		
Rehabilitation required to continue intended use		
Remediation required to achieve intended use		water well const.
Decommission, well is unneeded or cannot be remediated	Yes   Well is un	needed
Other	[ N/A ]	
6. Status Recommendation Done By: Name: R. K. Ledgerwood	Title: Principal Scie	entist Date: 10/21/93
		A-6000-451R (0





## RESOURCE PROTECTION GROUNDWATER WELL 699-92-14 STRUCTURE FITNESS FOR USE CHECKLIST Page 1 of 2 2. Has a need for use of the well been identified and documented? No 1 No documented use 3. Is well presently in use? No | Well is abandoned, but has not been decommissioned 4. Is casing sealed in accordance with IAW WAC 173-160-075? No Has surface seal, no downhole seal, see attached as-built 4a. Natural barriers preserved? ND No downhole annular seals 4b. Aquifer/strata pentrated permanently sealed? No | See 4a above 4c. Annulus sealed against surface water? Yes Has surface seal and concrete pump housing 4d. Casing overlap more than 8 ft; packed and grouted? Yes | Casing overlap >8-ft, has lead packers, no grout 5. If not in use, is well capped IAW WAC 173-160-085? Yes Has metal cap inside housing 6. Is design and construction IAW WAC 173-160-500? N/A Not resource protection well 6a. Saturated formation/aquifers not connected? [ N/A ] 6b. Cuttings/development water handled IAW WAC 173-303? [ N/A ] 6c. Well properly indentified? No No permanent identification 7. Is surface protection IAW WAC 173-160-510? ( N/A ) 7a. Well capped and protected? 1 N/A 1\_\_\_\_ 7c. Surface protection waived or variance obtained? t N/A 1 7d. Is existing surface protection damaged? [ N/A 1

RCRA/CERCLA MONITORING WELL?

10. Does water sample from vertical screened interval represent horizontal stratigraphy?

[ N/A ]

10a. Screened interval documented?

[ N/A ] NO SCREEN

10b. Vertical lithology documented?

[ Yes ] Driller's log

8. Are casing materials IAW 173-160-5207

9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530?

9a. Drill rig/equipment casing/screen cleaned?

9b. Filter pack cleaned? Material compatible?

( N/A )

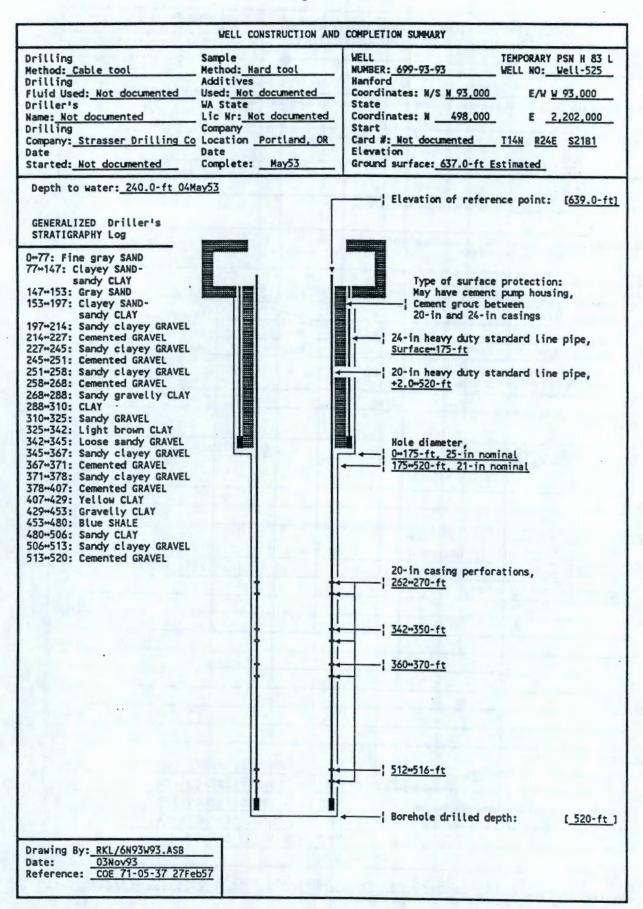
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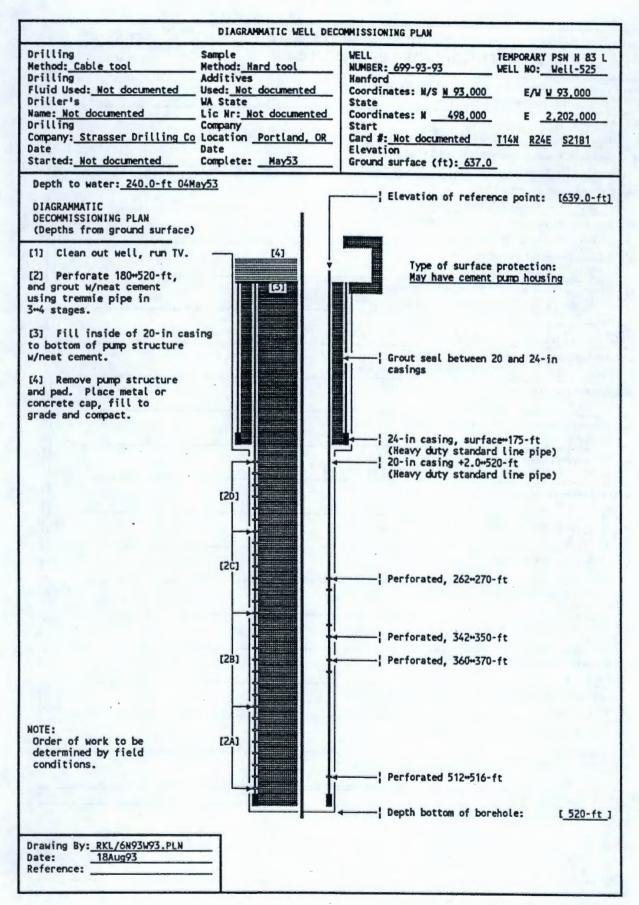
[ N/A ]

I N/A 1

95/3322.1750<sub>EDT</sub> 600202 Item 19 Page 4 of 4

RESOURCE PROTECTION GROUN		699-92-14
STRUCTURE FITNESS FOR USI	E CHECKLIST	Page 2 of 2
11. Is design and construction IAW WAC 173-160-540?		
( N/A )		
11a. Screen commercially fabricated of material nonreactive	to subsurface conditions?	The second second
( N/A 1		
11b. If filter pack installed, extends from bottom of screen		Jelo proportion
[_N/A_1		
11c. Well has been developed.  [ N/A ]		
11d. Annulus grouted with bentonite or bentonite/cement n	nixture.	
[ N/A ]		
12. Does water sample meet established acceptance criteria?		
Sample is less than 5 NTU and sand free.		
13. Data Sources Used:		
Logs: Driller's: Strasser Drilling Portlan	nd OR Date: 11/10/5	Company:
Geologist: N/A		Company:
Geophysical: N/A		
Television: N/A		Company:
Publications: Title, Author, Date		
HANFORD WELLS, V. L. McGhan, June	1989	
Databases:		
N/A	07.100.10	
	Date: 07/08/9	Company:
Other:		
		4 7 7 7 1 1 1 1
		7. 143.6p.(m)-0.,
14. Comments: Identify evaluation criteria addressed by number	r:	
[15] Well is not in use and has		
Decommissioning is recommedned.	See attached diagram	matic well
decommissioning plan.		
15. Status		
Wall is acceptable for intended use	[ No ] Rehabilitat	
Well is acceptable for intended use if variance is granted	No 1 Rehabilitat	
Rehabilitation required to continue intended use	Yes   Cleanout/re	
Remediation required to achieve intended use	No 1 Acceptable	water well const.
Decommission, well is unneeded or cannot be remediated	Yes   Well is unn	eeded
Other	( N/A )	
16. Status Recommendation Done By: Name: R. K. Ledgerwood	Title: Principal Scien	tist n. 10/21/03
Done By: Name: K. K. Ledger wood	nue. IT merpar seren	Date: 10/21/33



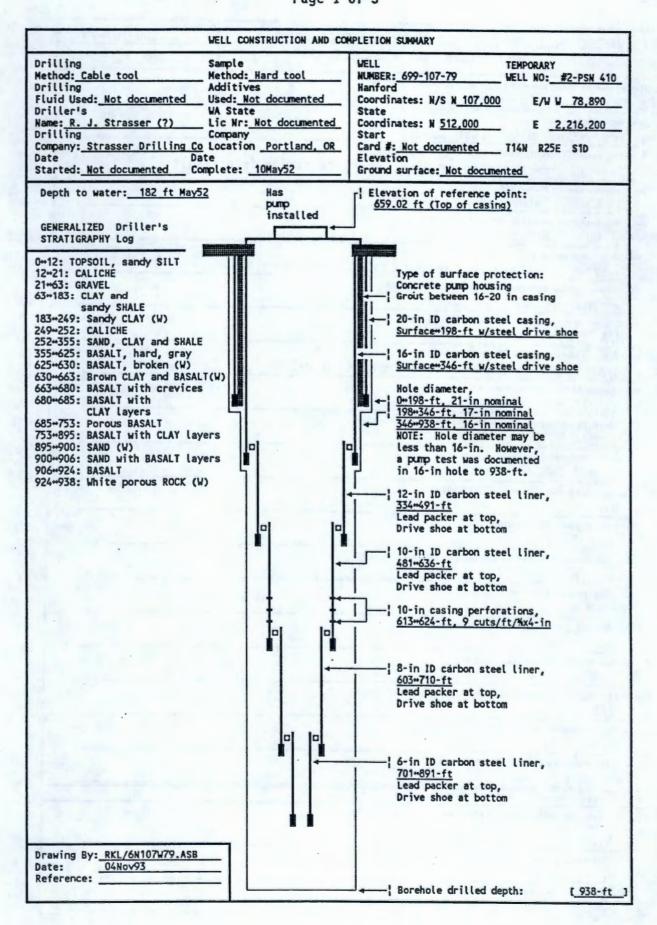


### 1. Well No. RESOURCE PROTECTION GROUNDWATER WELL 699-93-93 STRUCTURE FITNESS FOR USE CHECKLIST Page 1 of 2 2. Has a need for use of the well been identified and documented? ( No ) No documented use 3. Is well presently in use? [ No ] Well is abandoned, but has not been decommissioned 4. Is casing sealed in accordance with IAW WAC 173-160-075? 1 No 1 Has surface seal, no downhole seals, see attached as-built 4a. Natural barriers preserved? ND 1 No downhole annular seals 4b. Aquifer/strata pentrated permanently sealed? [ No ] See 4a above 4c. Annulus sealed against surface water? Yes | Has surface seal 4d. Casing overlap more than 8 ft; packed and grouted? N/A | Surface seal casing grouted 5. If not in use, is well capped IAW WAC 173-160-085? ND Not documented 6. Is design and construction IAW WAC 173-160-500? N/A Not resource protection well 6a. Saturated formation/aquifers not connected? [ N/A ] 6b. Cuttings/development water handled IAW WAC 173-303? [ N/A ] 6c. Well properly Indentified? [ No ] No permanent identification 7. Is surface protection IAW WAC 173-160-510? ( N/A 1\_ 7a. Well capped and protected? [ N/A ] 7b. Protective posts, surface pad or cover installed? N/A 1 7c. Surface protection waived or variance obtained? ( N/A ) 7d. Is existing surface protection damaged? [ N/A ]\_ 8. Are casing materials IAW 173-160-5207 ( N/A ) 9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? 9a. Drill rig/equipment casing/screen cleaned? [ N/A ] 9b. Filter pack cleaned? Material compatible? ( N/A ) RCRA/CERCLA MONITORING WELL? 10. Does water sample from vertical screened interval represent horizontal I N/A 1 10s. Screened interval documented? [ N/A ] 10b. Vertical lithology documented? Yes Driller's log

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	RESOURCE PROTECTION GROUNDWATER WELL	1. Well No. 699-93-93
	STRUCTURE FITNESS FOR USE CHECKLIST	Page 2 of 2
11	s design and construction IAW WAC 173-160-5407	
	N/A 1	
	11a. Screen commercially fabricated of material nonreactive to subsurface conditions?	
	( N/A )	
	11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen.	
	(_N/A_1	
	11c. Well has been developed.	
	[ N/A ]	
	[ N/A ]	
12.	Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free.	
	1_N/A_1	
	Data Sources Used:	
	Driller's: Strasser Drilling Portland UK Date: May 33	Company:
	Geologist: N/A Date:	Company:
	Geophysical: N/A - Date:	Company:
	Television: N/A Date:	Company:
	Publications: Title, Author, Date	
	HANFORD WELLS, V. L. McGhan, June 1989	
	Databases:	
	N/A	
	Field Check: N/A Date:	Company:
	Other:	
14.	Comments: Identify evaluation criteria addressed by number:	
	[15] Well is not in use and has no documented need f	or use.
	Decommissioning is recommended. See attached diagram	matic well
	decommissioning plan.	
15	Status	
15.	Well is acceptable for intended use [ No ] Rehabilitat	ion required
	Well is acceptable for intended use if variance is granted [ No ] Rehabilitat	
	Rehabilitation required to continue intended use [ Yes ] Cleanout/re	
	No. Accentable	water well const.
	Voc Unil in una	
	, Ν/Δ ,	Coucu
10	Status Recommendation	
10.	Done By: Name: R. K. Ledgerwood Title: Principal Scien	tist Date: 10/21/93

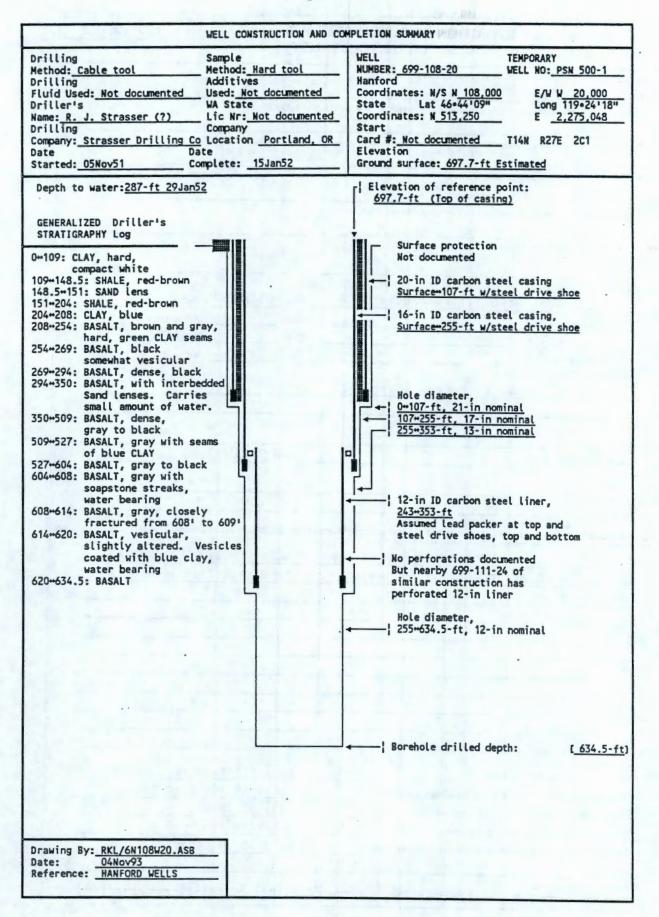
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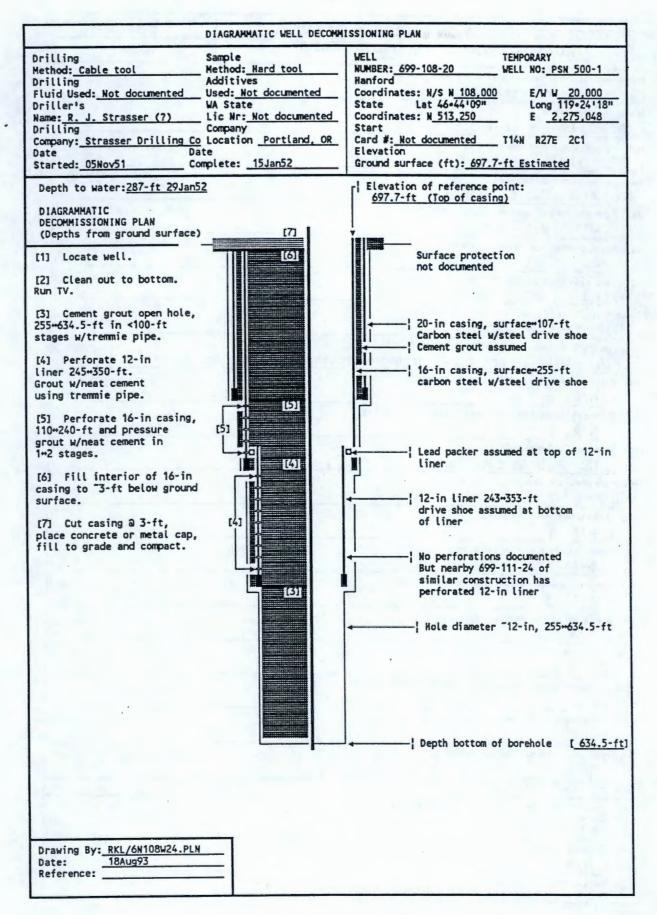


	RESOURCE PROTECTION GROUNDWATER WELL	1. Well No. 699-107-79
	STRUCTURE FITNESS FOR USE CHECKLIST	Page 1 of 2
2	Has a need for use of the well been identified and documented?	
۷.	Yes Well is in use	
3.	Is well presently in use?	
-	Yes   Community water supply	Company of the control of the contro
4.	Is casing sealed in accordance with IAW WAC 173-160-075?	
	Yes   Surface casing grouted, entrance casing into	basalt
	4a. Natural barriers preserved?	
	ND 1 Interbeds may be open	
	4b. Aquifer/strata pentrated permanently sealed?	
	ND Not documented	
	4c. Annulus sealed against surface water?	
	Yes Has sealed surface casing and concrete pad	
	4d. Casing overlap more than 8 ft; packed and grouted?	
	( Yes ) Casing is packed	
5.	If not in use, is well capped IAW WAC 173-160-085?	The second second
	[ N/A ]	
6.	Is design and construction IAW WAC 173-160-5007	13 min - 14
	N/A   Well is not resource protection well	
	6a. Saturated formation/aquifers not connected?	The state of the s
	(_N/A_1	
	6b. Cuttings/development water handled IAW WAC 173-303?	
	[ N/A ] 6c. Well properly indentified?	
7	[ N/A ] Is surface protection IAW WAC 173-160-510?	
′.		
	7a. Well capped and protected?	
	7b. Protective posts, surface pad or cover installed?	
	(_N/A_1	
	7c. Surface protection waived or variance obtained?	
	[ N/A ]	
	7d. Is existing surface protection damaged?	
	(_N/A_)	
8.	Are casing materials IAW 173-160-520?	
	(N/A)	
9.	Was drill rig/drilling equipment cleaned IAW WAC 173-160-530?	
	( N/A 1 .	
	9a. Drill rig/equipment casing/screen cleaned?	
	( N/A )	
	9b. Filter pack cleaned? Material compatible?	
	t_N/A_1	
_	RA/CERCLA MONITORING WELL?	
10	. Does water sample from vertical screened interval represent horizontal stratigraphy?	
	[ N/A ]	
	10a. Screened interval documented?	
	(_N/A)	
	10b. Vertical lithology documented?	
	( Yes 1 Driller's log	STORY OF THE STORY
		1 2222 222 2222

EDT 600202 Item 21 Page 3 of 3

	RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. 699-107-79 Page 2 of 2
	s design and construction IAW WAC 173-160-540?	
	11a. Screen commercially fabricated of material nonreactive to subsurface conditions?	
	11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen.	
	[ N/A ]	
	[ N/A ]	
12.	Does water sample meet established acceptance criteria?  Sample is less than 5 NTU and sand free.  N/A }	
	Data Sources Used: Logs: Driller's: Strasser Drilling Protland OR Date: 05/10/52	Company:
		Company:
	Geophysical: N/A Date:	Company:
	Television: N/A Date:	
	Publications: Title, Author, Date HANFORD WELLS, V. L. McGhan, June 1989	
	Databases: N/A	
	Field Check: WHC GWWS Date: 07/08/9	3 Company:
	Other:	
	Comments: Identify evaluation criteria addressed by number. [15] Well is in beneficial use as a water supply wel	
	construction is acceptable for water well use except	that lead packers
	were used for completion.	
15	Status	
19,		ns lead packers
		r lead packers
	Rehabilitation required to continue intended use [ No ] Well is in	
	Remediation required to achieve intended use [ No ] Not require	d
	, N/A	beneficial use
16.	Status Recommendation Done By: Name: R. K. Ledgerwood Title: Principal Scien	tist Date: 10/21/93
		A-6000-451B-106/0

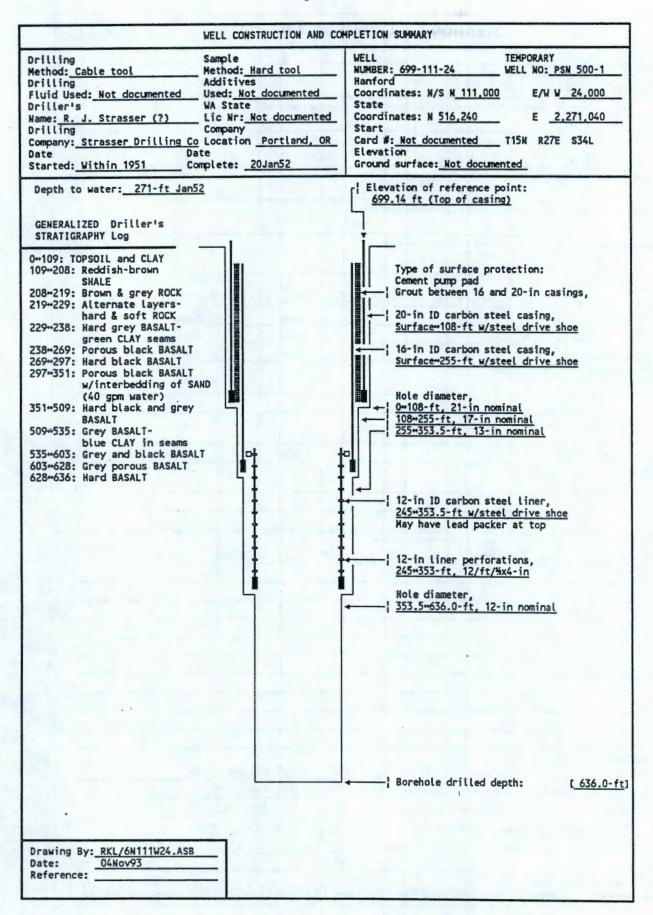




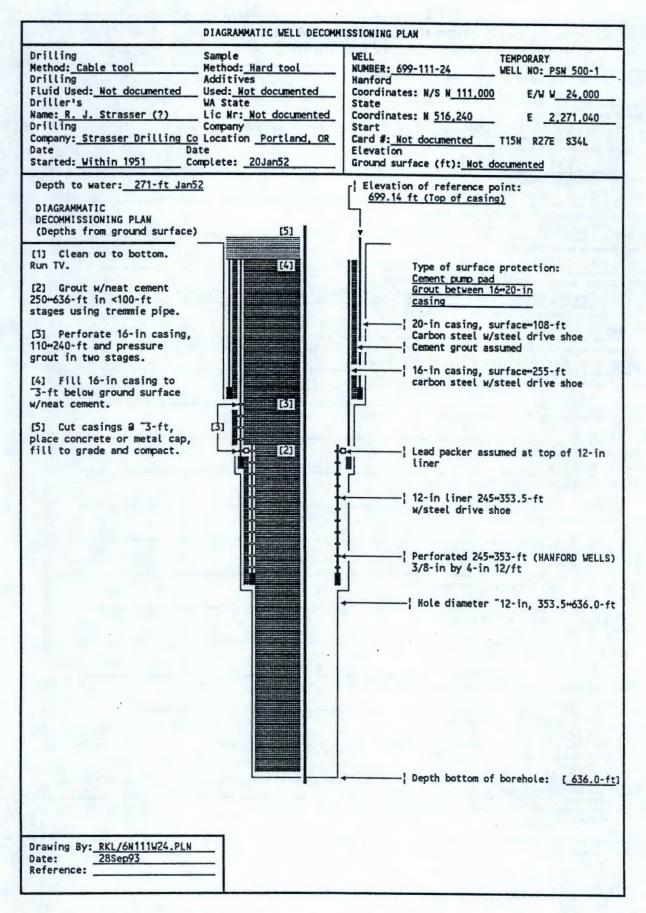
RESOURCE PROTECTION GROUNDWATER WEI	L 699-108-20
STRUCTURE FITNESS FOR USE CHECKLIST	Page 1 of 2
2. Has a need for use of the well been identified and documented?	
No No documented use	The state of the s
3. Is well presently in use?	
No JUnable to locate well	
4. Is casing sealed in accordance with IAW WAC 173-160-075?	
ND Not documented	
4a. Natural barriers preserved?	. 11 10
ND Not documented	
4b. Aquifer/strata pentrated permanently sealed?	
ND Not documented	and College and Co
4c. Annulus sealed against surface water?	
ND Not documented	
4d. Casing overlap more than 8 ft; packed and grouted?	
ND Not documented	
5. If not in use, is well capped IAW WAC 173-160-085?	PERMIT FOR DE
[ ND ] Not documented	A-2011 A 11 A 2011
6. Is design and construction IAW WAC 173-160-500?	17
N/A   Well is not a resource protection we	II, may not be drilled
6a. Saturated formation/aquifers not connected?	
( N/A 1	
6b. Cuttings/development water handled IAW WAC 173-303?	Take the second
I N/A 1	
6c. Well properly indentified?  [ ND ] Unable to locate	
7. Is surface protection IAW WAC 173-160-510?	
[ N/A ]	
7a. Well capped and protected?	
[ N/A ]  7b. Protective posts, surface pad or cover installed?	
t_N/A_1	HI L
7c. Surface protection waived or variance obtained?	
t_N/A_1	
7d. Is existing surface protection damaged?	
[ N/A ]	
8. Are casing materials IAW 173-160-520?	
( N/A 1	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530?	
[ N/A ]	
9a. Drill rig/equipment casing/screen cleaned?	
[ N/A ]  9b. Filter pack cleaned? Material compatible?	
[ N/A ]  RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal	
stratigraphy?	
ι_N/A_1	
10a. Screened interval documented?	Children College
( N/A 1	
10b. Vertical lithology documented?	
( <u>Yes</u> )Driller's log	

EDT 600202 Item 22 Page 4 of 4

RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	699-108-20
STRUCTURE FITNESS FOR USE CHECKLIST	Page 2 of 2
11. Is design end construction IAW WAC 173-160-540?	
11a. Screen commercially fabricated of material nonreactive to subsurface conditions?	
r N/A 1	
11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen.  [ N/A ]	1000000
11c. Well has been developed.	
[ N/A ]  11d. Annulus grouted with bentonite or bentonite/cement mixture.	
[ N/A ]  12. Does water sample meet established acceptance criteria?	
12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free.  [ N/A ]	
13. Data Sources Used: •	
Logs: Drillers: Strasser Drilling Portland OR Date: 01/15/	52 Company:
****	Company:
	Company:
Television: N/A Date:	
Publications: Title, Author, Date	
N/A	
Databases:	
N/A	
Field Check: N/A Date:	Company:
Field Check: N/A Date:	Company:
	Company:
	Company:
Other:	Company:
Other:  14. Comments: Identify evaluation criteria addressed by number:	
Other:	
Other:  14. Comments: Identify evaluation criteria addressed by number:	
Other:  14. Comments: Identify evaluation criteria addressed by number:	
Other:  14. Comments: Identify evaluation criteria addressed by number:	
Other:  14. Comments: Identify evaluation criteria addressed by number:	
Other:  14. Comments: Identify evaluation criteria addressed by number:	
Other:  14. Comments: Identify evaluation criteria addressed by number:	
Other:  14. Comments: Identify evaluation criteria addressed by number:	
Other:  14. Comments: Identify evaluation criteria addressed by number:	
Other:  14. Comments: Identify evaluation criteria addressed by number:	
Other:  14. Comments: Identify evaluation criteria addressed by number:	
Other:  14. Comments: Identify evaluation criteria addressed by number:	
14. Comments: Identify evaluation criteria addressed by number:  [15] Unable to locate well. Decommission if locate	d.
14. Comments: Identify evaluation criteria addressed by number:  [15] Unable to locate well. Decommission if locate	d.
14. Comments: Identify evaluation criteria addressed by number:  [15] Unable to locate well. Decommission if locate	d. nted
14. Comments: Identify evaluation criteria addressed by number:  [15] Unable to locate well. Decommission if locate  15. Status  Well is acceptable for intended use  Well is acceptable for intended use If variance is granted Intended Int	nted
14. Comments: Identify evaluation criteria addressed by number:  [15] Unable to locate well. Decommission if locate	nted nted nted
Other:  14. Comments: Identify evaluation criteria addressed by number:  [15] Unable to locate well. Decommission if locate   15. Status  Well is acceptable for intended use  Well is acceptable for intended use if variance is granted [ ND ] Not docume  Rehabilitation required to continue intended use [ ND ] Not docume  Remediation required to achieve intended use [ ND ] Not docume	nted nted nted nted
Other:  14. Comments: Identify evaluation criteria addressed by number:  [15] Unable to locate well. Decommission if locate  15. Status  Well is acceptable for intended use  Well is acceptable for intended use if variance is granted [ ND	nted nted nted
Other:  14. Comments: Identify evaluation criteria addressed by number:  [15] Unable to locate well. Decommission if locate  15. Status  Well is acceptable for intended use  Well is acceptable for intended use if variance is granted  Rehabilitation required to continue intended use  Remediation required to achieve intended use  Decommission, well is unneeded or cannot be remediated  Other  16. Status    ND	nted nted nted nted



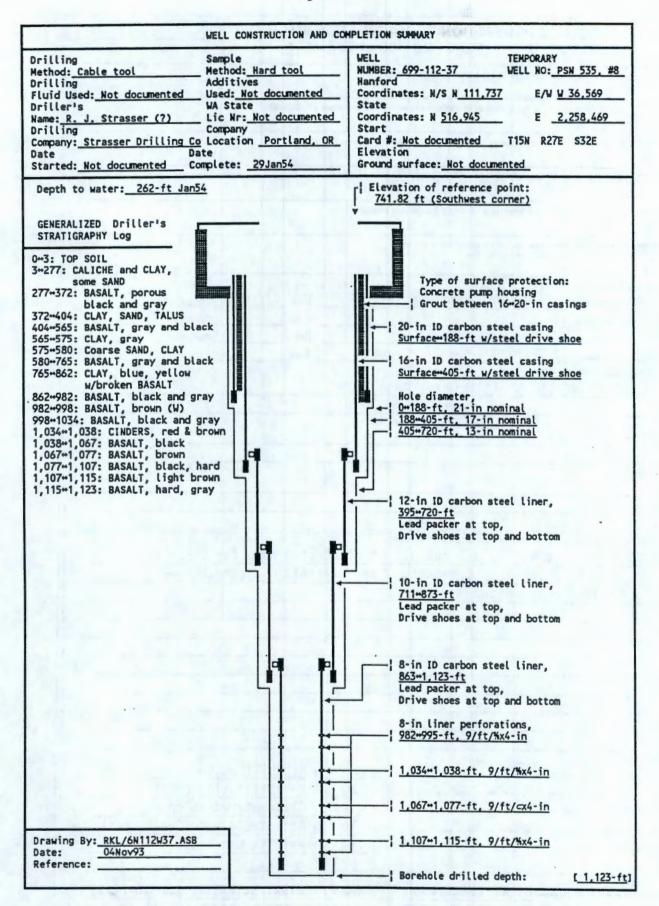
EDT 600202 Item 23 Page 2 of 4

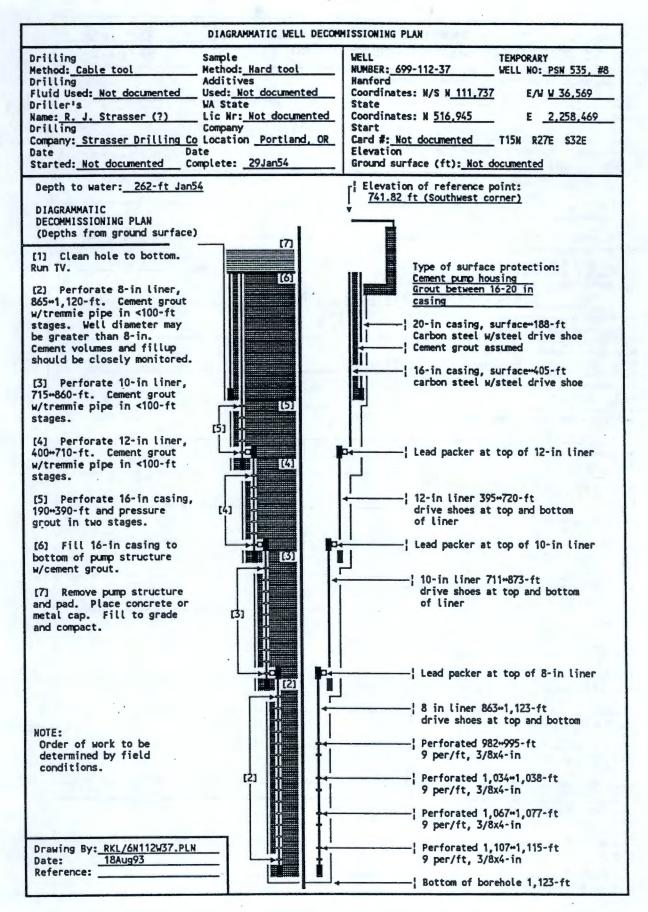


2. Has a need for use of the well been identified and documented?  [ NO ] NO documented use  3. Is well presently in use?  [ NO ] Well is abandoned, but has not been decommissioned  4. Is casing sealed in accordance with IAW WAC 173-160-075?  [ ND ] Not documented	
[ No ] No documented use  3. Is well presently in use? [ No ] Well is abandoned, but has not been decommissioned  4. Is casing seeled in accordance with IAW WAC 173-160-075?	
3. Is well presently in use?  [ No ] Well is abandoned, but has not been decommissioned  4. Is casing sealed in accordance with IAW WAC 173-160-075?	
4. Is casing sealed in accordance with IAW WAC 173-160-0757	
4. Is casing sealed in accordance with IAW WAC 173-160-0757	
ND Not documented	
[ ND ] NOT GOTHIER TEG	
4a. Natural barriers preserved?	
[ ND ] Not documented	
4b. Aquifer/strata pentrated permanently sealed?	
[ ND ] No documented	
4c. Annulus sealed against surface water?	
Yes 1 Has surface pad, assumed surface casing grouted	
4d. Casing overlap more than 8 ft; packed and grouted?	
Yes   Upper casing assumed grouted, has lead packers  5. If not in use, is well capped IAW WAC 173-160-0857	
ND 1 Metal plate cap	
6. Is design and construction IAW WAC 173-160-500?	
N/A Not resource protection well	
6a. Saturated formation/aquifers not connected?	
[ N/A ]	
6b. Cuttings/development water handled IAW WAC 173-303?	
( N/A )	
6c. Well properly indentified?	
r_N/A_1	
7. Is surface protection IAW WAC 173-160-510?	
r_N/A_1	
7a. Well capped and protected?	
(_N/A)	
7b. Protective posts, surface pad or cover installed?	
(_N/A_1_	
7c. Surface protection waived or variance obtained?	
t_N/A_1	
7d. Is existing surface protection damaged?	
t_N/A_1	
8. Are casing materials IAW 173-160-520?	
( N/A )	-
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530?	
( N/A )	
9a. Drill rig/equipment casing/screen cleaned?  [ N/A ]	
9b. Filter pack cleaned? Material compatible?	
( N/A )	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal	
10. Does water sample from vertical screened interval represent nonzontal stratigraphy?	
t_N/A_1	
10a. Screened interval documented?	
[ N/A ]	
10b. Vertical lithology documented?	
( Yes ) Driller's log	

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RESOURCE PROTECTION GROUNDWATER WELL	1. Well No. 699-111-24
STRUCTURE FITNESS FOR USE CHECKLIST	Page 2 of 2
11. Is design and construction IAW WAC 173-160-540?	
( N/A )	
11a. Screen commercially fabricated of material nonreactive to subsurface conditions? [ N/A ]	
11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen.	The state of the s
( N/A 1	
11c. Well has been developed.	
[ N/A ]  11d. Annulus grouted with bentonite or bentonite/cement mixture.	The state of
[ N/A ]  12. Does water sample meet established acceptance criteria?	
Sample is less than 5 NTU and sand free.  [ N/A ]	
13. Data Sources Used: Logs: Standard Dwilling Dontland OP 01/20/5	
Driller's: Strasser Drilling Portraind OK Date: 01/20/3	
	Company:
Geophysical: NA Date:	
Television: NA Date:	Company:
Publications: Title, Author, Date	
HANFORD WELLS, V. L. McGhan, June 1989	
Databases	
Databases: N/A	
	Company:
Other:	-11755 14-11
14. Comments: Identify evaluation criteria addressed by number:	aw 1100
[5] Well is not in use and has no documented need for	
Decommissioning is recommended. See attached diagram	nmatic well
decommissioning plan.	
	•
15. Status	tion modulized
	tion required
V C1	tion required
Rehabilitation required to continue intended use [ Yes ] Cleanout/re	
	water well const.
Decommission, well is unneeded or cannot be remediated [ Yes ] Well is uni	needed
Other [ N/A ]	
16. Status Recommendation Pone By: Name: R. K. Ledgerwood Title: Principal Scient	ntist_Dete: 10/21/93
Done By: Name: N. Ledger Hood Inde: Trincipal Scie	A-6000-4518 (06/93

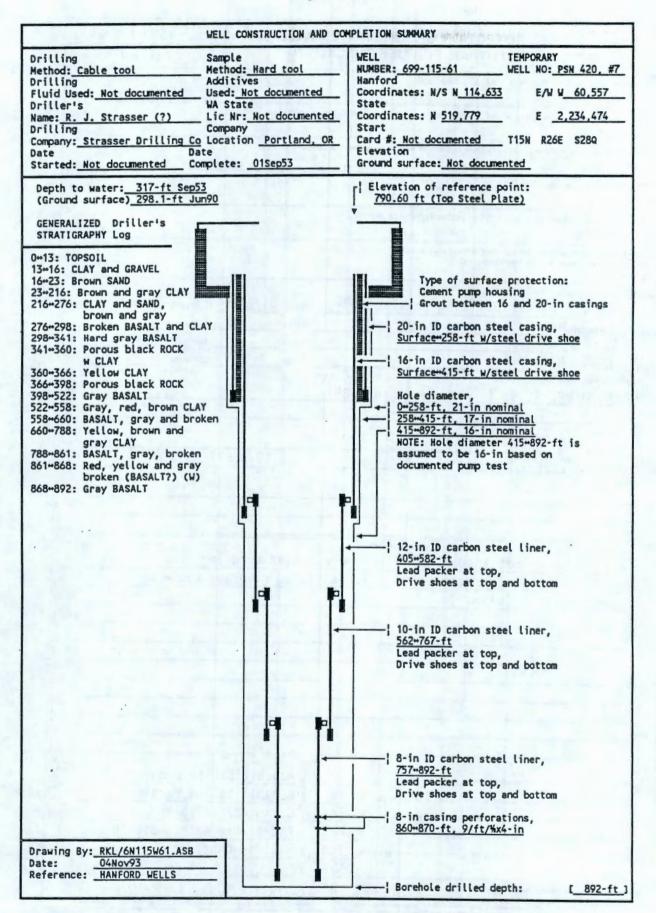


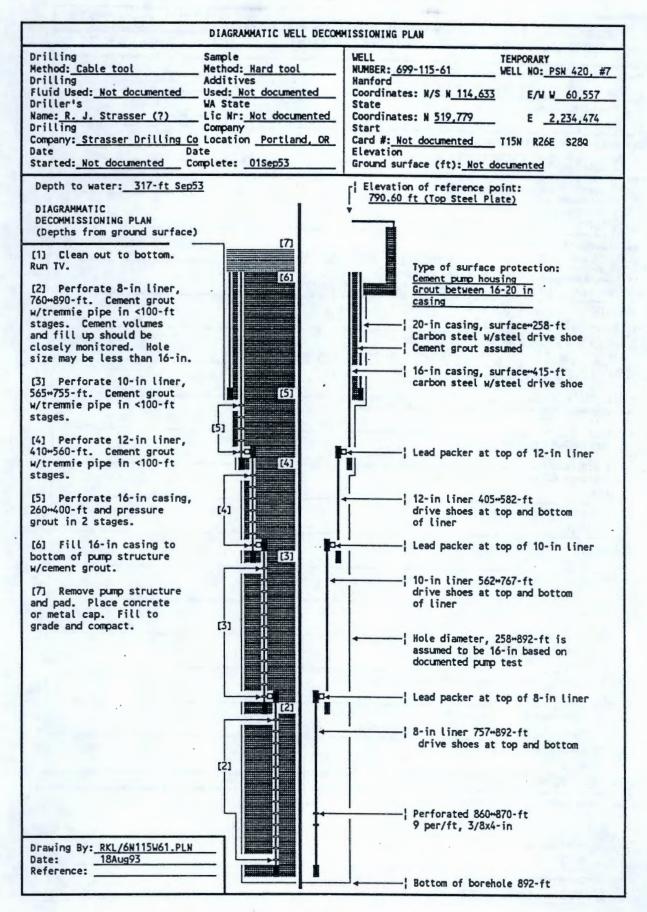


RESOURCE PROTECTION GROUNDWATER WELL	699-112-37
STRUCTURE FITNESS FOR USE CHECKLIST	Page 1 of 2
Has a need for use of the well been identified and documented?	
No No documented use	
Is well presently in use?	
[ No ] Well is abandoned, but has not been de	commissioned
Is casing sealed in accordance with IAW WAC 173-160-0757	
ND Not documented	
4a. Natural barriers preserved?	
( ND ) Not documented	
4b. Aquifer/strata pentrated permanently sealed?	
ND Not documented	
4c. Annulus sealed against surface water?	
Yes Has concrete pump housing and surfa	ce casing
4d. Casing overlap more than 8 ft; packed and grouted?	
Yes Casing overlaps, has lead packers	
If not in use, is well capped IAW WAC 173-160-085?	
( Yes ) Has steel plate	
Is design and construction IAW WAC 173-160-500?	
N/A Not a resource protection well	
6a. Saturated formation/aquifers not connected?	
t_N/A_1	
6b. Cuttings/development water handled IAW WAC 173-3037	
( N/A 1	
6c. Well properly indentified?	
( <u>N/A</u> 1	
Is surface protection IAW WAC 173-160-5107	
[ N/A ] 7a. Well capped and protected?	•
[ N/A ]  7b. Protective posts, surface pad or cover installed?	
[ N/A ]  7c. Surface protection waived or variance obtained?	
****	
[ N/A ]  7d. Is existing surface protection damaged?	
r N/A 1	
Are casing materials IAW 173-160-5207	
[ N/A ]	
Was drill rig/drilling equipment cleaned IAW WAC 173-160-530?	
[ N/A ] 9a. Drill rig/equipment casing/screen cleaned?	
[ N/A 1	
9b. Filter pack cleaned? Material compatible?	
r_N/A_1	
RA/CERCLA MONITORING WELL?	
D. Does water sample from vertical screened interval represent horizontal	
stratigraphy?	
( N/A 1	
10a. Screened interval documented?	
( N/A )	
10b. Vertical lithology documented?  ( Yes   Driller's log	The state of the s
( 162 ) Dillier 2 103	
	A-6000-451 (0)

EDT 600202 Item 24 Page 4 of 4

RESOURCE PROTECTION GROUN	1. Well No. 699-112-37	
STRUCTURE FITNESS FOR USE	CHECKLIST	Page 2 of 2
1. Is design and construction IAW WAC 173-160-540?		
11a. Screen commercially fabricated of material nonreactive		
[ N/A ]  11b. If filter pack installed, extends from bottom of screen t	to at least 3 ft above screen.	
( N/A )		
11c. Well has been developed.		
[ N/A ]  11d. Annulus grouted with bentonite or bentonite/cement m		
( N/A )  2. Does water sample meet established acceptance criteria?		
Sample is less than 5 NTU and sand free.		
3. Data Sources Used:	J 00 01 100 15	-1-1-14-14-1
Driller's: Strasser Drilling Portial		
Geologist: N/A		Company:
Geophysical: N/A		
Television: N/A	Date:	Company:
Publications: Title, Author, Date	1000	
HANFORD WELLS, V. L. McGhan, June	1989	
Databases: N/A		
Field Check; WHC GWWS	Dete: 07/08/9	3
Other:	Dete. 07/00/2	Company.
Oulet.		
4. Comments: Identify evaluation criteria addressed by number		L. 100
[15] Well is not in use and has		
Decommissioning is recommended.	See attached diagram	matic woll
Decommers to tring is recommended.	occ accached dragian	matic Hell
decommissioning plan.	oce accached dragian	matic Hell
	see ussuence dragram	macre werr
	see accaence dragram	matre Hell
	see accuered dragram	matre well
	see accuence dragram	matric Hell
The state of the s	See decidence dragram	matric Hell
The state of the s	oce decidence dragram	matric Hell
	See decidence dragram	Macro Hell
The state of the s	See decidence dragram	macre well
decommissioning plan.	See decidence dragitali	macre well
decommissioning plan.		
decommissioning plan.  5. Status  Well is acceptable for intended use	ι_Noı Rehabilitat	ion required
decommissioning plan.  5. Status  Well is acceptable for intended use  Well is acceptable for intended use if variance is granted	(_No) Rehabilitat	ion required
decommissioning plan.  5. Status  Well is acceptable for intended use  Well is acceptable for intended use if variance is granted Rehabilitation required to continue intended use	[ No ] Rehabilitat	ion required ion required develop
decommissioning plan.  5. Status  Well is acceptable for intended use  Well is acceptable for intended use if variance is granted  Rehabilitation required to continue intended use  Remediation required to achieve intended use	[ No ] Rehabilitat [ No ] Rehabilitat [ Yes ] Cleanout/re [ No ] Acceptable	ion required ion required develop water well const.
decommissioning plan.  5. Status  Well is acceptable for intended use  Well is acceptable for intended use if variance is granted Rehabilitation required to continue intended use  Remediation required to achieve intended use  Decommission, well is unneeded or cannot be remediated	No Rehabilitat No Rehabilitat Yes Cleanout/re No Acceptable Yes Well is unr	ion required ion required develop water well const.
decommissioning plan.  5. Status  Well is acceptable for intended use  Well is acceptable for intended use if variance is granted  Rehabilitation required to continue intended use  Remediation required to achieve intended use	[ No ] Rehabilitat [ No ] Rehabilitat [ Yes ] Cleanout/re [ No ] Acceptable	ion required ion required develop water well const.

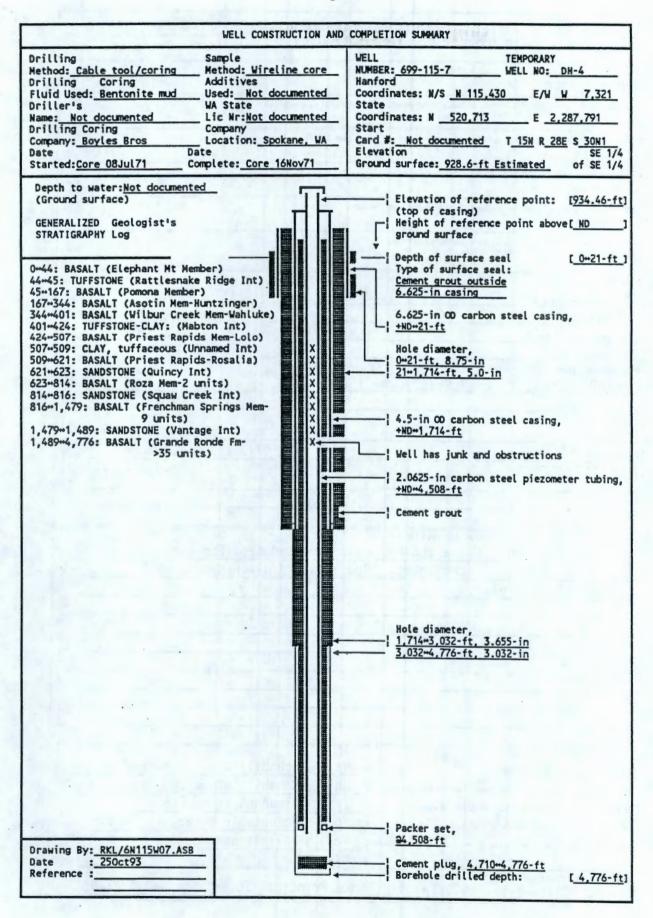


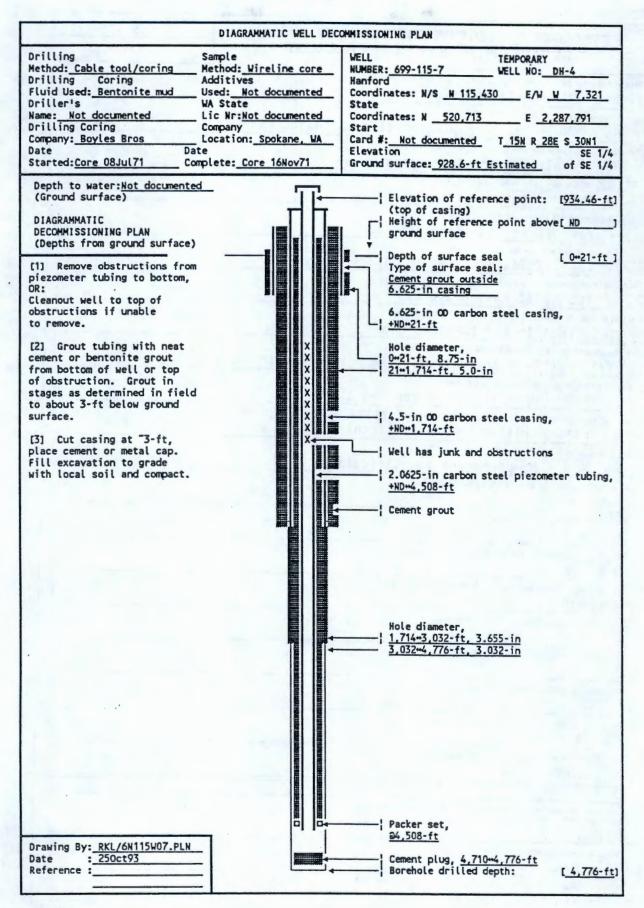


RESOURCE PROTECTION GROUNDWATER WELL		699-115-61	
	STRUCTURE FITNESS FOR USE CHECKLIST	Page 1 of 2	
2.	Has a need for use of the well been identified and documented?		
	No No documented use		
3.	Is well presently in use?		
	No   Well is abandoned, but has not been decommiss	ioned	
4.	Is casing sealed in accordance with IAW WAC 173-160-0757		
	ND Not documented		
	4a. Natural barriers preserved?		
	ND Not documented		
	4b. Aquifer/strata pentrated permanently sealed?		
	ND Not documented	· ·	
	4c. Annulus sealed against surface water?		
	Yes 1 Has concrete housing and surface casing		
	4d. Casing overlap more than 8 ft; packed and grouted?		
	Yes 1 Casing overlaps, has lead packers		
5.	If not in use, is well capped IAW WAC 173-160-0857		
	Yes Has steel plate		
6.	Is design and construction IAW WAC 173-160-500?		
	N/A   Well is not resource protection well		
	6a. Saturated formation/aquifers not connected?		
	[ N/A ]		
	[ N/A ]		
	6c. Well properly indentified?		
	( N/A 1	•	
7.	Is surface protection IAW WAC 173-160-510?		
	( N/A )		
	7a. Well capped and protected?		
	[ N/A ]		
	7b. Protective posts, surface pad or cover installed?		
	(_N/A_1		
	7c. Surface protection waived or variance obtained?		
	( N/A )  7d. Is existing surface protection damaged?		
	( N/A )	-1.0	
8	Are casing materials IAW 173-160-520?		
	[ N/A ]		
9.	Was drill rig/drilling equipment cleaned IAW WAC 173-160-530?		
	[ N/A ]		
	9a. Drill rig/equipment casing/screen cleaned?		
	( N/A )		
	9b. Filter pack cleaned? Material compatible?		
	τ_N/A_1		
RC	RA/CERCLA MONITORING WELL?		
10	Does water sample from vertical screened interval represent horizontal     stratigraphy?		
	[ N/A ]		
	10a. Screened interval documented?		
	[ N/A ]		
	10b. Vertical lithology documented?		
	(_Yes_,Driller's log		
		A-6000-451 (06/93)	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST		1. Well No. 699-115-61			
STRUCTURE FITNESS FOR US	Page 2 of 2				
11. Is design and construction IAW WAC 173-160-5407		No. 2			
11a. Screen commercially fabricated of material nonreactive	e to subsurface conditions?				
11b. If filter pack installed, extends from bottom of screen	11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen.				
t_N/A_1					
11c. Well has been developed.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
11d. Annulus grouted with bentonite or bentonite/cement	nixture.				
12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free.  [ N/A ]					
13. Data Sources Used: Logs: Driller's: Strasser Drilling Portla	nd OR 09/01	/53			
NI /A		Company:			
Geophysical: N/A Television: N/A		Company:			
Publications: Title, Author, Date	Date:	Company:			
HANFORD WELLS, V. L. McGhan, June	1989				
Databases: N/A					
Field Check: WHC GWWS	Date: 07/08	3/93 Company:			
Other:					
14. Comments: Identify evaluation criteria addressed by number					
[15] Well is not in use and has		for use			
Decommissioning is recommended.					
decommissioning plan.	oce accached drays	animacic Hell			
decommissioning plan.					
15. Status	No Dobobilia	ables seculosi			
Well is acceptable for intended use		ation required			
Well is acceptable for intended use if variance is granted		ation required			
Rehabilitation required to continue intended use	Yes 1 Cleanout				
Remediation required to achieve intended use		e water well const.			
Decommission, well is unneeded or cannot be remediated	Yes   Well is u	inneeded			
Other	( N/A )				
16. Status Recommendation Done By: Name: R. K. Ledgerwood	Title: Principal Sci	ientist Date: 10/21/93			





RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST		1. Well No. 699-115-7
		Page 1 of 2
2.	Has a need for use of the well been identified and documented?	per all the second
	No No identified user	
3.	Is well presently in use?	
	No Well has been plugged since drilling	
4.	Is casing sealed in accordance with IAW WAC 173-160-075?	
	Yes Multiple grouted casings	
	4a. Natural barriers preserved?	
	Yes 1 Interbeds grouted	
	4b. Aquifer/strata pentrated permanently sealed?	
	Yes   Upper aquifers grouted	
	4c. Annulus sealed against surface water?	
	Yes   Surface casing to 21-ft	
	4d. Casing overlap more than 8 ft; packed and grouted?	
	Yes All casing overlap	
5.	If not in use, is well capped IAW WAC 173-160-085?	
	Yes 1 Has locked threaded cap	
6.	Is design and construction IAW WAC 173-160-500?	
	N/A   Well is characterization not monitoring well	
	6a. Saturated formation/aquifers not connected?	
	Yes   Upper aquifers grouted off	
	6b. Cuttings/development water handled IAW WAC 173-303?	202
	N/A Drilled before applicable date of WAC 173-	-303
	6c. Well properly indentified?	
	No No permanent identification	
7.	Is surface protection IAW WAC 173-160-5107	
	I_N/A_1	
	7a. Well capped and protected?	
	t N/A 1	
	7b. Protective posts, surface pad or cover installed?	
	[ N/A ]  7c. Surface protection waived or variance obtained?	
	[ N/A ]  7d. Is existing surface protection damaged?	
	[ N/A ] . Are casing materials IAW 173-160-520?	
0.	( N/A )	
	. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530?	
3.	[ N/A ] .	
	9a. Drill rig/equipment casing/screen cleaned?	***************************************
	[ N/A ]	
	9b. Filter pack cleaned? Material compatible?	
	( N/A )	
BC	CRA/CERCLA MONITORING WELL?	
-	O. Does water sample from vertical screened interval represent horizontal	
"	stratigraphy?	
	r_N/A_1	
	10a. Screened interval documented?	21
1	( N/A 1	
	10b. Vertical lithology documented?	
	<pre>[ Yes ] Geologist's core log</pre>	

A-6000-451 (06/93)

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RESOURCE PROTECTION GROUNDWATER WELL		1. Well No. 699-115-7
	STRUCTURE FITNESS FOR USE CHECKLIST	. Page 2 of 2
	s design and construction IAW WAC 173-160-540?  N/A ]	
	11a. Screen commercially fabricated of material nonreactive to subsurface conditions?	
	11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen.	
	(_N/A_)	
	11c. Well has been developed.	
	[ N/A ]	
	11d. Annulus grouted with bentonite or bentonite/cement mixture.  [ N/A ]  Does water sample meet established acceptance criteria?	
12.	Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. [ N/A ]	
	Data Sources Used: Logs: Driller's: Boylea Brothers, Spokane WA Date: 11/16/71	Company
	Geologist: Atlantic Richfield Co Date: 11/16/71	Company:
	Geophysical: N/A Date:	
		Company:
	Publications: Title, Author, Date	
	Hole History, Corehole DH-4 and DH-5, 1972, Fenix and	Scisson.
	Richland, WA	
	Databases: N/A	
	Field Check: N/A Date:	Company:
	Other:	
14.	Comments: Identify evaluation criteria addressed by number:	1
	[15] Well is unneeded and has never been usable. Wel	I should be
	decommissioned.	
15.	Status	
	Well is acceptable for intended use [ No ] Well is plug	
	Well is acceptable for intended use if variance is granted [ No ] Well is not	
	Rehabilitation required to continue intended use [ No ] Well is unne	
	Remediation required to achieve intended use [ No ] Not economic	
	Decommission, well is unneeded or cannot be remediated [ Yes ] Well is unne	eeded
	Other [ ]	
16.	Status Recommendation Done By: Name: R. K. Ledgerwood Title: Principal Scient	tist - 10/20/02
	Done By: Name: K. K. Ledgerwood Title: PTTIICIPAL SCIEN	130 Date: 10/23/33

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